

FAA Statistical Handbook of Aviation

Calendar Year 1992

AD A279205

| Accesion For | | |
|----------------|---------------|--|
| NTIS CRA&I | 70 | |
| DTan IAB | | |
| Una monasced | | |
| di fracation | ************* | |
| By | | |
| Dut its dional | | |
| Just a lay | Terrat | |
| n. | | |
| A-1 | | |

DTIG COMMENT WIND FEBRUARD 5

Availability is unlimited. Document may be released to the National Technical Information Service Springfield, Virginia 22161, for sale to the public

For sale by the U.S. Government Printlin Office Superintendent of Documents, Mail Stop: SSOP, Washington, DC 20403-9328 ISBN 0-16-048175-1

| | | rechnical Report Documentation Page |
|---------------------------------|-----------------------------|-------------------------------------|
| 1. Report No. | 2. Government Accession No. | 3. Recipient's Catalog No. |
| 4. Title and Subtitle | | 5. Report Date |
| FAA STATISTICAL HANDB | OOK OF AVIATION | 1992 |
| | | 6. Performing Organization Code |
| | | APO-110 |
| 7. Author(s) | | 8. Performing Organization Report |
| | | No. |
| | | FAA-APO-94-5 |
| 9. Performing Organization Nan | ne and Address | 10. Work Unit No. (TRAIS) |
| Federal Aviation Administration | n e | L |
| 800 Independence Avenue, S | .W. | 11. Contract or Grant No. |
| Washington, DC 20591 | | |
| 12. Sponsoring Agency Name a | nd Address | 13. Type of Report and Period |
| Department of Transportation | | Covered |
| Federal Aviation Administrati | on | Annual Calendar Year 1992 |
| 800 Independence Avenue, | S.W. | 14. Sponsoring Agency Code |
| Washington, DC 20591 | | 1 |
| 15. Supplementary Notes | | |
| 16. Abstract | | |

This report presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, Aeronautical Production and Imports/Exports, and a Glossary of the terms used in this publication.

(THIS PUBLICATIONIS NOT FOR SALE BY THE FAA)

| 17. Key Words Air Carrier, Airport, Air Traffic, Airmen, Aircraft Accidents, General Aviation, Aeronautical Production. | | 18. Distribution Statement Documents Available to the Public Through the National Technical Information Service Springfield, Virginia 22161 | |
|---|--|--|-----------|
| 19. Security Classif.(of this report) UNCLASSIFIED | 20. Security Classif.(of this page) UNCLASSIFIED | 21. No. of Pages | 22. Price |

Form DOT F 1700.7 (8-72)

Reproduction of completed page authorized

ORDER INFORMATION

GPO operates U.S. Government bookstores all around the country where you can browse through the shelves and take your books home with you. Naturally, these stores can't stock all of the more than 21,000 titles in their inventory, but they'll be happy to order any Government book currently offered for sale and have it sent directly to you. All the bookstores accept VISA, MasterCard, and Superintendent of Documents deposit account orders. For more information, contact Superintendent of Documents, U.S. Government Printing Office (GPO), Washington, DC 20402, (202)783-3238 or contact any of the following GPO Bookstores located throughout the United States.

Addresses are listed below for ordering purposes.

ATLANTA, GA

Room 100, Federal Building, 275 Peachtree Street, NE,P.O. Box 56445, Atlanta, GA 30343; (404) 331-6947

BIRMINGHAM, AL

O'Neill Building, 2021 Third Avenue, North, Birmingham, AL 35203; (205) 731-1056

BOSTON, MA

Thomas P. O'Neill Building, 10 Causeway Street, Room 179, Boston, MA 02222; (617) 565-6680

CHICAGO, IL

Room 1365, Federal Building, 219 S. Dearborn Street, Chicago, IL 60604; (312) 353-5133

CLEVELAND, OH

Room 1653, Federal Building, 1240 E. 9th Street, Cleveland, OH 44199; (216) 522-4922

COLUMBUS, OH

Room 207, Federal Building, 200 N. High Street, Columbus, OH 43215; (614) 469-6956

DALLAS, TX

Room 1C46, Federal Building, 1100 Commerce Street, Dallas, TX 75242; (214) 767-0076

DENVER. CO

Room 117, Federal Building, 1961 Stout Street, Denver, CO 80294; (303) 844-3964

DETROIT, MI

Suite 160, Federal Building, 477 Michigan Avenue, Detroit, MI 48226; (313) 226-7816

HOUSTON, TX

Texas Crude Building, 801 Travis Street, Suite 120, Houston, TX 77002; (713) 653-3100

JACKSONVILLE, FL

Room 158, Federal Building, 400 W. Bay Street, Jacksonville, FL 32202; (904) 791-3801

KANSAS CITY, MO

120 Bannister Mall, 5600 E. Bannister Road, Kansas City, MO 64137; (816) 765-2256

LAUREL, MD

Warehouse Sales Outlet, 8660 Cherry Lane, Laurel, MD 20707; (301) 953-7974 or 792-0262

LOS ANGELES, CA

ARCO Plaza, C-Level, 505 South Flower Street, Los Angeles, CA 90071; (213) 894-5841

MILWAUKEE, WI

Room 190, Federal Building, 517 E. Wisconsin Avenue, Milwaukee, WI 53202; (414) 291-1304

NEW YORK, NY

Room 110, 26 Federal Plaza, New York, NY 10278; (212) 264-3825

PHILADELPHIA. PA

Robert Morris Building, 100 North 17th Street, Philadelphia, PA 19103; (215) 597-0677

PITTSBURGH, PA

Room 118, Federal Building, 1000 Liberty Avenue, Pittsburgh, PA 15222; (412) 644-2721

PORTLAND, OR

1305 S.W. First Avenue, Portland, OR 97201-5801 (503) 221-6217

PUEBLO. CO

World Savings Building, 720 North Main Street, Pueblo, CO 81003; (719) 544-3142

SAN FRANCISCO, CA

Room 1023, Federal Building, 450 Golden Gate Avenue, San Francisco, CA 94102; (414) 556-0643

SEATTLE, WA

Room 194, Federal Building, 915 Second Street, Seattle, WA 98174; (206) 442-4270

WASHINGTON, DC

U.S.Government Printing Office, 710 North Capitol Street, NW, Washington, DC 20401; (202) 275-2091 1510 H Street, NW., Washington, DC 20005; (202) 653-5075

PUBLICATION INFORMATION FOR PLANNING ANALYSIS DIVISION STATISTICS AND FORECAST BRANCH STATISTICS TEAM'S PUBLICATIONS

Below is a list of the publications compiled by the Office of Aviation, Policy, Plans, and Management Analysis; Planning Analysis Division; Statistics and Forecast Branch, Statistics Team. Questions may be directed to us by phone: (202) 267-3355, or by writing Federal Aviation Administration, Planning Analysis Division (APO-100) 800 Independence Avenue, S.W., Washington, DC 20591.

Airport Activity Statistics of Certificated Route Air Carrier is a joint publication of the Federal Aviation Administration (FAA) and the Research & Special Programs Administration (RSPA). RSPA furnishes airport activity data on certificated route air carriers; FAA organizes/publishes it. Included in the data are passenger enplanements, tons of enplaned freight and mail. Scheduled/nonscheduled service shown by airport and carrier are also included. Breakdown of data includes departures/enplanements/cargo/mail by airport, carrier & type of operation, and type of aircraft.

| Reporting period: | Calendar Year |
|--|--|
| Reporting period: Latest edition: | 1992 data |
| Order from: | U.S. Government Printing Office or |
| | National Technical Information Service |
| Date 1993 information will be available: | June 1994 |
| Date next publication is scheduled: | September 1994 (1993 data) |
| Person to contact: | |

Census of U.S. Civil Aircraft is an annual publication that includes statistical data on the registered civil fleet, air carrier aircraft, and general aviation aircraft—both registered and active, detailed reports for general aviation aircraft by owner's state and county, and registered aircraft by make and model.

| Reporting period:Latest edition: | Calendar Year |
|--|--|
| Latest edition: | 1992 data |
| Order from: | U.S. Government Printing Office, or |
| | National Technical Information Service |
| Date 1993 information will be available: | March 1994 |
| Date next publication is scheduled: | July 1994 (1993 data) |
| Date 1993 information will be available: | Patricia Beardsley |

FAA Air Traffic Activity furnishes terminal and en route air traffic activity information (e.g., takeoffs & landings, flight plans filed) of the National Airspace System. The data is collected/compiled from the FAA—operated Airport Traffic Control Towers, Air Route Traffic Control Centers, Flight Service Stations, Approach Control Facilities, and FAA Contract—towered airports.

| Reporting period:Latest edition: | Fiscal Year |
|---|--|
| Latest edition: | 1992 data |
| Order from: | U.S. Government Printing Office or |
| Order from: | National Technical Information Service |
| Date 1993 information will be available: | February 1994 |
| Date next publication is scheduled: | July 1994 (1993 data) |
| Date 1993 information will be available: Date next publication is scheduled: Person to contact: | Nancy Trembley |

FAA Statistical Handbook of Aviation is a convenient source for historical data. It presents statistical information pertaining to the Federal Aviation Administration, the National Airspace System, Airports, Airport Activity, U.S. Civil Air Carrier Fleet, U.S. Civil Air Carrier Operating Data, Airmen, General Aviation Aircraft, Aircraft Accidents, Aeronautical Production & Import/Export.

| Reporting period: Latest edition: | Calendar Year |
|--|---|
| Latest edition: | 1992 data |
| Order from: | U.S. Government Printing Office or |
| i | National Tachnical Information Consider |
| Date 1993 information will be available: | Various |
| Date next publication is scheduled: | December 1994 (1993 data) |
| Person to contact: | Patricia Beardsley |

General Aviation Activity and Avionics Survey publication presents the results of the general aviation activity and avionics survey conducted to obtain information on the activity and avionics of the U.S. registered general aviation aircraft fleet. The survey reveals estimated flying time of the active general aviation aircraft, and other statistics by manufacturer/model group, aircraft type, state and region of based aircraft, and primary use. Estimates are included on fuel consumption, lifetime airframe hours, avionics, and engine hours.

| Reporting period:Latest edition: | Calendar Year |
|--|---|
| Order from: | U.S. Government Printing Office or |
| Date 1992 information will be available: | August 1994 |
| Date next publication is scheduled: Person to contact: | November 1994 (1993 data) Patricia Beardsley |

Rotorcraft Activity Survey presents the results of a special one-time survey. The report contains breakdowns of active rotorcraft, annual flight hours, average flight hours, and other statistics by rotorcraft type, manufacture/model group, region and state of based aircraft, and primary use. Also included are law enforcement and public use rotorcraft, lifetime airframe hours, engine hours, estimated miles flown, and estimated number of landings.

| Edition: Order from: | Calendar Year 1989 Statistics & Forecast Branch or |
|----------------------|---|
| Person to contact: | National Technical Information Service Patricia Beardsley |

U.S. Civil Airmen Statistics is an annual study of detailed airmen statistics. It contains calendar year statistics on pilot and nonpilots and the number of certificates issued.

| Latest edition: Order from: | Calendar Year 1992 Statistics & Forecast Branch or |
|--|---|
| Date 1993 information will be available: | National Technical Information Service February 1994 April 1994 (1993 data) Patricia Beardsley |

PREFACE

The FAA Statistical Handbook of Aviation is published annually by the Federal Aviation Administration (FAA). Its prime purpose is to serve as a convenient source for historical data and to assist in evaluating progress. The Handbook should provide a valuable source of information for the Department of Transportation (DOT), operating offices of the FAA, the Research and Special Programs Administration (RSPA), and other government agencies, as well as nongovernment organizations interested in aviation.

Chapter I deals with the FAA and its functions. This section also includes a comparison of the agency's appropriations and the agency's personnel complement.

National Airspace System data reflecting the fiscal and calendar year workload of the FAA air traffic facilities—terminal and en route are contained in Chapter II. This chapter contains air traffic activity reported by FAA-operated airport traffic control towers, air route traffic control centers, and flight service facilities

Selected statistics concerning the nation's airport facilities by state within FAA regions are presented in Chapter III. In addition to the total count of these facilities, this chapter includes statistics pertaining to the physical characteristics (paved vs. unpaved runways, lighted vs. unlighted runways, length of runways, etc.), and funds allocated for airport development.

Airline passenger, cargo, and freight statistics shown in Chapter IV were prepared from data published in Airport Activity Statistics of Certificated Route Air Carriers, which is issued jointly by the RSPA and the FAA. This chapter covers the activity of the large scheduled certificated U.S. air carriers only.

The U.S. civil air carrier fleet is described in detail in Chapter V. The aircraft population discussed here is not an inventory of the aircraft owned by the air carriers, but represents the aircraft reported in air carrier use during the last quarter of the year.

U.S. civil air carrier operating data—revenue passenger miles flown, available seat-miles, enplanements, revenue ton-miles flown, revenue aircraft miles flown, and operating revenues and expenses of the large certificated air carriers—are presented in Chapter VI. These statistics were obtained from forms submitted by the large certificated U.S. air carriers to the RSPA. Also included in Chapter VI are traffic statistics for the small certificated and commuter air carriers.

The airmen data shown in Chapter VII were obtained from official airmen certification records maintained by the FAA's Mike Monroney Aeronautical Center in Oklahoma City, Oklahoma. These data included the number of airmen as of the end of each year and the number of certificates issued during the year.

The general aviation aircraft data presented in Chapter VIII were collected from the General Aviation Activity and Avionics Survey. Numbers of active aircraft and hours flown are shown for each aircraft type, use category and state.

Aircraft accident information for air carriers, commuters, air taxis, and general aviation, appear in Chapter IX. These data were furnished by the National Transportation Safety Board (NTSB).

Aeronautical production and imports/exports are summarized in Chapter X. The production information was obtained from reports submitted to the U.S. Bureau of the Census by all known producers of complete aircraft and aircraft engines. Import/export data were obtained through Aerospace Industries Association, Inc. based on Bureau of the Census data from special monthly compilation of annual reports FT-446 and FT-410, respectively.

The FAA Statistical Handbook of Aviation is prepared by the Statistics and Forecast Branch, Planning Analysis Division, Office of Aviation Policy, Plans, and Management Analysis, with the cooperation of other FAA offices. Special appreciation is expressed to the Research and Special Programs Administration, U.S. Bureau of the Census, the National Transportation, Safety Board, and many municipalities and private organizations for their assistance.

John M.\Rodgers

Director Aviation Policy, Plans, and Management Analysis

TABLE OF CONTENTS

| | Orderi | ing Infomation | Page iii |
|-----|---------|--|-------------|
| | Statist | ics and Forecast Branch Publication Information | v |
| | | e | |
| I. | THE I | FEDERAL AVIATION ADMINISTRATION | 1–1 |
| | 1.1 | FAA Appropriations: Fiscal Years 1989–1993 | 1-3 |
| | | FAA Civilian Employees at End of Fiscal and Calendar Years 1983-1992 | |
| | 1.2 | • • | 1-4 |
| | 1.3 | Number of Total Paid FAA Employees as of December 31, 1983-1992 | 1–4 |
| II. | THE ! | NATIONAL AIRSPACE SYSTEM | 2–1 |
| | 2.1 | U.S. Air Route Airway Mileage: 1983-1992 | 2–3 |
| | 2.2 | FAA Air Route Facilities and Services: 1983-1992 | 2–3 |
| | 2.3 | Air Traffic Activity at Air Route Traffic Control Centers, by Aviation Category: FISCAL YEARS 1988-1992 | 2–7 |
| | 2.4 | Air Traffic Activity at Airport Traffic Control Towers, by Aviation Category: FISCAL YEARS 1988-1992 | 2–7 |
| | 2.5 | Air Traffic Activity at FAA Facilities, by Aviation Category: FISCAL YEARS 1988-1992 | 2–8 |
| | 2.6 | Air Traffic Activity at Flight Service Facilities: FISCAL YEARS 1988-1992 | 2–8 |
| | 2.7 | Aircraft Contacted at Flight Service Facilities, by Aviation Category: FISCAL YEARS 1988-1992 | 2–9 |
| | 2.8 | Top 25 FAA-Operated Airport Traffic Control Towers, by Rank Order of Total Operations and by Aviation Category including Air Carrier Rank: FISCAL YEAR 1992 | 2–10 |
| | 2.9 | Top 25 FAA-Operated Airport Traffic Control Towers, by Rank Order of Air Carrier Operations and by Aviation Category including Total Operations Rank: FISCAL YEAR 1992 | 2-11 |
| | 2.10 | Total FAA Air Traffic Activity by Region and State, and by FAA-Operated Towers, Air Route Traffic Control Centers, Flight Service Stations and International Flight Service Stations: FISCAL YEAR 1992 | 2-12 |
| | 2.11 | Air Traffic Activity at Air Route Traffic Control Centers, by Aviation Category: CALENDAR YEARS 1988-1992 | 2-15 |
| | 2.12 | Air Traffic Activity at Airport Traffic Control towers, by Aviation Category: CALENDAR YEARS 1988-1992 | 2-15 |
| | 2.13 | Air Traffic Activity at FAA Facilities, by Aviation Category: CALENDAR YEARS 1988–1992 | 2–16 |
| | 2.14 | Air Traffic Activity at Flight Service Facilities: CALENDAR YEARS 1988-1992 | 2–16 |
| | 2.15 | Aircraft Contacted at Flight Service Facilities, by Aviation Category: CALENDAR YEARS 1988-1992 | 2–17 |
| | 2.16 | Top 25 FAA-Operated Airport Traffic Control Towers, by Rank Order of Total Operations and by Aviation Category including Air Carrier Rank: CALENDAR YEAR 1992 | 2–18 |

| | | | Page |
|------|---------|--|------|
| | 2.17 | Top 25 FAA-Operated Airport Traffic control Towers, by Rank Order of Air Carrier Operations and by Aviation Category including Total Operations Rank: CALENDAR YEAR 1992 | 2-19 |
| | 2.18 | Total FAA Air Traffic Activity by Region and State, and by FAA-Operated Towers, Air Route Traffic Control Centers, Flight Service Stations and International Flight Service Stations: CALENDAR YEAR 1992 | 2–20 |
| III. | A ID DA | ORTS | |
| 111. | AIRT | JR15 | 5–1 |
| | 3.1 | U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record: 1983-1992 | 3–3 |
| | 3.2 | U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases and Reported Abandonments on Record, by FAA Region and State: December 31, 1992 | 3–4 |
| | 3.3 | U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record, by Type of Ownership: December 31, 1992 | 3–5 |
| | 3.4 | U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record, by Length of Longest Runway, by FAA Region and State: December 31, 1992 | 3–6 |
| | 3.5 | U.S. Civil and Joint-Use Airports, Heliports, Stolports, and Seaplane Bases on Record, by FAA Region and State and Other Areas: December 31, 1983-1992 | 3–7 |
| | 3.6 | Airport Improvement Program: FISCAL YEAR 1992 | 3–8 |
| IV. | AIRPO | ORT ACTIVITY OF CERTIFICATED ROUTE AIR CARRIERS | 4–1 |
| | 4.1 | Certificated Route Air Carriers as of December 31, 1992 | 4–3 |
| | 4.2 | American Flag Airline Traffic Enplaned — System Total: 1983-1992 | 4-4 |
| | 4.3 | American Flag Airline Traffic Enplaned — 50 States: 1983-1992 | 4-4 |
| | 4.4 | American Flag Airline Traffic Enplaned at U. S. Territories: Stations: 1983-1992 | 4–5 |
| | 4.5 | American Flag Airline Traffic Enplaned Foreign Countries: 1983-1992 | 4-5 |
| | 4.6 | Summary of Aircraft Departures, Enplaned Revenue Passengers, and Enplaned Revenue Tons of Cargo and Mail, by Type of Operation, by Type of Service, by Carrier Group, and by Air Carrier: 12 Months Ending December 31, 1992 | 4-6 |
| | 4.7 | Summary of Aircraft Departures, Enplaned Revenue Passengers, and Enplaned Revenue Tons of Cargo and Mail, by Type of Operation, by Type of Service, by State and U.S. Area: 12 Months Ending December 31, 1992 | 4-8 |
| | 4.8 | Aircraft Departures, Enplaned Revenue Passengers, and Enplaned Revenue Tons of Cargo and Mail in Total Operations, All Services at Large Air Traffic Hubs: 12 Months Ending December 31, 1992 | 4–11 |
| | 4.9 | Aircraft Departures, Enplaned Revenue Passengers, and Enplaned Revenue Tons of Cargo and Mail in Total Operations, All Services at Medium Air Traffic Hubs: 12 Months Ending December 31, 1992 | 4–13 |
| | 4.10 | Aircraft Departures, Enplaned Revenue Passengers, and Enplaned Revenue Tons of Cargo and Mail in Total Operations, All Services at Small Air Traffic Hubs: 12 Months Ending December 31, 1992 | 4–15 |
| | 4.11 | Top 100 Airports in Rank Order by Total Enplaned Passenger: 1992 | 4–19 |

| V. | U.S. C | CIVIL AIR CARRIER FLEET | Page 5-1 |
|-----|--------|---|----------|
| | 5.1 | Total Aircraft Reported in Operation by Air Carriers, by Type of Aircraft: December 1983-1992 | 5–3 |
| | 5.2 | Total Aircraft Reported in Operation by Air Carriers, by Manufacturer and Model: December 1983–1992 | 5-4 |
| | 5.3 | Total Flight Hours for Aircraft Reported in Operation by Air Carriers, by Manufacturer and Model: December 1983–1992 | 5–7 |
| | 5.4 | Total Large Aircraft Reported in Operation by Domestic, Flag, and Supplemental/ Scheduled Cargo Air Carriers and Commercial Operators, by Carrier and Engine Type: 1992 | 5–10 |
| | 5.5 | Total Small Aircraft Reported in Operation by Commuter Carriers and On-Demand Air Taxis, by Carrier and Engine Type: 1992 | 5–13 |
| VI. | U.S. C | CERTIFICATED AIR CARRIERS—OPERATING DATA | 6–1 |
| | 6.1 | Large Certificated Air Carriers: 1991 and 1992 | 6–3 |
| | 6.2 | Traffic Data, All Services (Scheduled and Nonscheduled) of the Large Certificated Air Carriers: 1991 and 1992 | 6–4 |
| | 6.3 | Revenue Aircraft Departures, Miles and Hours Flown, and Average Speed in Domestic All Services of the Large Certificated Air Carriers: 1983–1992 | 6–5 |
| | 6.4 | Revenue Aircraft Departures, Miles and Hours Flown, and Average Speed in International All Services of the Large Certificated Air Carriers: 1983-1992 | 6–5 |
| | 6.5 | Total Ton-Miles Available in All Services of the Large Certificated Air Carriers: 1983-1992 | 6–6 |
| | 6.6 | Revenue Ton-Miles Flown in All Services by Large Certificated Air Carriers: 1983–1992 | 6-6 |
| | 6.7 | Passenger Operations in Scheduled Domestic Operations of the Large Certificated Air Carriers: 1983–1992 | 6–7 |
| | 6.8 | Passenger Operations in Scheduled International Operations of the Large Certificated Air Carriers: 1983–1992 | 6–7 |
| | 6.9 | Revenue Aircraft-Miles Flown in All Services of the Large Certificated Air Carriers: 1983–1992 | 6–8 |
| | 6.10 | Operating Revenue of Domestic Operations, All Services; Large Certificated Air Carriers; Major, National, and Large Regional Groups: 1983–1992 | 6–9 |
| | 6.11 | Operating Expenses of Domestic Operations, All Services; Large Certificated Air Carriers; Major, National, and Large Regional Groups: 1983–1992 | 6-9 |
| | 6.12 | Operating Revenue of International Operations, All Services; Large Certificated Air Carriers; Major, National, and Large Regional Groups: 1983-1992 | 6–10 |
| | 6.13 | Operating Expenses of International Operations, All Services; Large Certificated Air Carriers; Major, National, and Large Regional Groups: 1983-1992 | 6–10 |
| | 6.14 | Operating Revenue, System All Services, Large Certificated Air Carriers, Medium Regional Group: 1983-1992 | 6_11 |

| | | | D |
|------|--------|--|------------|
| | 6.15 | Operating Expenses, System All Services, Large Certificated Air Carriers, Medium Regional Group: 1983–1992 | Pag 6-1 |
| | 6.16 | Small Certificated and Commuter Air Carriers: 1991 and 1992 | 6-1 |
| | 6.17 | Small Certificated, Commuter and Large Certificated Medium Regional Air Carriers, Traffic Data: 1983-1992 | 6–1 |
| | 6.18 | Small Certificated, Commuter and Large Certificated Medium Regional Air Carriers, Traffic Averages: 1983–1992 | 6- |
| VII. | U.S. C | CIVIL AIRMEN | 7- |
| | 7.1 | Estimated Active Airmen Certificates Held: December 31, 1983-1992 | 7- |
| | 7.2 | Estimated Active Women Airmen Certificates Held: December 31, 1983-1992 | 7. |
| | 7.3 | Estimated Active Pilot Certificates Held by Class of Certificate by FAA Region: December 31, 1992 | 7 |
| | 7.4 | Estimated Active Pilot Certificates Held by Class of Certificate: December 31, 1983- | 7 |
| | 7.5 | Estimated Active Pilots and Flight Instructors by FAA Region and State: December 31, 1992 | 7 |
| | 7.6 | Estimated Active Women Pilots and Flight Instructors by FAA Region and State: December 31, 1992 | 7 |
| | 7.7 | Estimated Active Helicopter Pilots by Class of Certificate: December 31, 1983-1992 | 7- |
| | 7.8 | Estimated Active Glider Pilots by Class of Certificate: December 31, 1983-1992 | 7 |
| | 7.9 | Estimated Instrument Ratings Held by Class of Certificate by FAA Region: December 31, 1992 | 7 |
| | 7.10 | Estimated Instrument Ratings Held by Class of Certificate: December 31, 1983-1992 | 7- |
| | 7.11 | Estimated Total Pilots and Instrument Rated Pilots: December 31, 1983-1992 | 7- |
| | 7.12 | Estimated Active Pilot Certificates Held by Category and Age Group of Holder: December 31, 1992 | 7– |
| | 7.13 | Average Age of Active Pilots by Category: December 31, 1983- 1992 | 7 |
| | 7.14 | Nonpilot Airmen Certificates Held by FAA Region and State: December 31, 1992 | 7– |
| | 7.15 | Women Nonpilot Airmen Certificates Held by FAA Region and State: December 31, 1992 | 7– |
| | 7.16 | Airmen Certificates Issued by Category and Conductor: 1992 | 7– |
| | 7.17 | Original Airmen Certificates Issued: 1983-1992 | 7- |
| | 7.18 | Additional Airmen Ratings Issued: 1983-1992 | 7- |
| | 7.19 | Airmen Certificates Approved/Disapproved by Category and Conductor: 1992 | 7- |
| | 7.20 | Percentage of Airmen Certificates Issuances Approved by Category and Conductor: | 7- |
| | 7.21 | Instrument Rating Issued: 1983-1992 | 7- |
| | 7.22 | Student Certificates Issued by Month: 1983-1992 | 7- |

| VIII. | GENE | RAL AVIATION AIRCRAFT | Page 8-1 |
|-------|-----------------|---|-------------|
| | 8.1 | Active General Aviation Aircraft, by Aircraft Type and Primary Use: 1992 | 8-3 |
| | 8.2 | Active General Aviation Aircraft, by Aircraft Type: 1983-1992 | 8-4 |
| | 8.3 | Active General Aviation Aircraft by Primary Use- 1983-1992 | 85 |
| | 8.4 | Active General Aviation Aircraft Total Hours Flown, by Aircraft Type and Primary Use: 1992 | 86 |
| | 8.5 | Active General Aviation Total Hours Flown, by Aircraft Type: 1983-1992 | 8-7 |
| | 8.6 | Active General Aviation Aircraft Total Hours Flown by Primary Use- 1983-1992 | 8-8 |
| | 8.7 | Active General Aviation Aircraft Average Hours Flown, by Aircraft Type: 1983-1992 | 89 |
| | 8.8 | Active General Aviation Aircraft and Hours Flown, by FAA Region and State of Based Aircraft: 1992 | 8–10 |
| IX. | AIRC | RAFT ACCIDENTS | 9–1 |
| | 9.1 | Air Carrier and General Aviation Aircraft Accidents and Fatalities: 1992 | 9–3 |
| | 9.2 | Airline Accidents, Fatalities and Rates: 1992 | 9–3 |
| | 9.3 | Airline Fatal Accidents, Fatalities: 1992 | 9-4 |
| | 9.4 | Airlines: Scheduled and Nonscheduled Service, Accidents, Fatalities, and Rates: 1983–1992 | 9–5 |
| | 9.5 | Airlines: Scheduled Service, Accidents, Fatalities, and Rates: 1983-1992 | 9–6 |
| | 9.6 | Airlines: Nonscheduled Service, Accidents, Fatalities, and Rates: 1983-1992 | 97 |
| | 9.7 | Commuter Air Carriers Fatal Accidents, Fatalities: 1992 | 9–8 |
| | 9.8 | Commuter Air Carriers Accidents, Fatalities, and Rates 1983-1992 | 98 |
| | 9.9 | On-Demand Air Taxi Accidents, Fatalities, and Rates 1983-1992 | 9_9 |
| | 9.10 | General Aviation Accidents, Fatalities, and Rates 1983-1992 | 9_9 |
| X. | AERO | ONAUTICAL PRODUCTION AND IMPORTS/EXPORTS | 10–1 |
| | 10.1 | Total Civil Aircraft Production, Weight, and Cost: Calendar Years 1983-1992 | 10-3 |
| | 10.2 | Number of Shipments of Complete Civil Aircraft: 1983-1992 | 10–3 |
| | 10.3 | Number of U.S. Imports of Aerospace Products: 1983-1992 | 10-4 |
| | 10.4 | Number of U.S. Exports of Aerospace Products: 1983-1992 | 10–5 |
| | COM | MON ACRONYMS | 106 |
| | GLOS | SSARY | G–1 |
| | T . A. S | ILLUSTRATIONS DECIONAL POUR PARIES | |
| | | REGIONAL BOUNDARIES | |
| | AIR | KARMI HIIKS | 4.2 |

0 AEA FAA REGIONAL BOUNDARIES INCLIDING LOCATIONS OF REGIONAL HEADQUARTERS AND CENTERS AGA U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION ACE ASW (Southment) POPPLONED! o O 0

I. THE FEDERAL AVIATION ADMINISTRATION

The Department of Transportation Act of 1966 established a new executive department known as the Department of Transportation. The general welfare, economic growth, stability, and security of the nation pointed to the need for the development of national transportation policies and programs effectively using the nation's transportation resources. The Act provided for inclusion of the Federal Aviation Agency in the Department as the Federal Aviation Administration.

Directed by an Administrator, who is appointed by the President, by and with the advice and consent of the Senate, the FAA has as its primary function the fostering of the development and safety of American aviation. More specifically, the FAA is responsible for developing the major policies necessary to guide the long-range growth of civil aviation; modernizing the air traffic control system; establishing in a single authority the essential management functions necessary to support the common needs of civil and military operations; providing for the most effective and efficient use of the airspace over the United States; and for the rule making responsibilities relative to these functions.

The FAA constructs, operates, and maintains the National Airspace System and the facilities which are a part of the system; it allocates and regulates the use of the airspace; it ensures adequate separation between aircraft operating in controlled airspace; and, through research and development programs, it provides new systems and equipment for improving atilization of the nation's airspace.

The FAA prescribes and administers rules and regulations concerning airmen competency, aircraft airworthiness, and air traffic control. It promotes safety through certification of airmen, aircraft, and flight and aircraft maintenance schools. It reviews the design, structure, and performance of new aircraft to insure the safety of the flying public.

Services provided by FAA toward the development of aviation and air commerce include:

Dissemination of news and information on civil aviation generally.

Publication of flight information data for pilots.

Technical aviation assistance to other governments, operation of overseas civil aviation missions, and the aviation training of foreign nationals.

Development of medical standards for airmen through aviation medical research.

Research and development in the field of aeronautics and electronics.

Other activities required to encourage and foster the worldwide development of civil aviation and air commerce.

Policies governing these programs are developed in the Washington headquarters of FAA, and are executed by field employees.

The FAA has nine regional offices strategically located throughout the United States as well as the FAA Technical Center at Atlantic City, New Jersey, and the Mike Monroney Aeronautical Center at Oklahoma City, Oklahoma.

TABLE 1.1 FAA BUDGET AUTHORITY FISCAL YEARS 1989–1993 (\$ IN MILLIONS)

| Appropriation | 1989 | 1990 | 1991 | 1992 | 1993 |
|---|-------------|-------------|-------------|-------------|-------------|
| Total | \$6,589.5 | \$7,366.6 | \$7,937.7 | \$8,872.1 | \$9,167.9 |
| Operations (General Fund) | \$2,974.0 | \$3,015.4 | \$2,034.3 | \$2,250.4 | \$2,258.6 |
| Operations (Airport and Airway Trust Fund) | \$471.3 | \$808.6 | \$2,003.0 | \$2,109.6 | \$2,279.3 |
| Facilities and Equipment (Airport and Airway Trust Fund) | \$1,384.2 | \$1,721.2 | \$2,095.4 | \$2,394.0 | \$2,350.0 |
| Grants-in-Aid for Airports (Airport and Airway Trust Fund) Contract Authority | \$1,600.0 | \$1,651.2 | \$1,600.0 | \$1,900.0 | \$2,050.0 |
| (Obligation Limitation) | (\$1,399.0) | (\$1,422.0) | (\$1,834.5) | (\$1,900.0) | (\$1,800.0) |
| Research, Engineering and Development (Airport and Airway Trust Fund) | \$160.0 | \$170.2 | \$205.0 | \$218.1 | \$230.0 |

TABLE 1.2 FAA CIVILIAN EMPLOYEES AT END OF FISCAL AND CALENDAR YEARS 1983–1992 (SEE NOTE BELOW)

| | FAA Takal | | Full Time P | Permanent | |
|--------|-------------------|----------------------|---------------------|---------------|--------|
| Date | FAA Total Paid | Washington Office | Washington Field | Other Field | Total |
| Sep-83 | 46,922 | 1,906 | 155 | 45,317 | 45,317 |
| Dec-83 | 46,993 | 1,911 | 144 | 43,266 | 45,321 |
| Sep-84 | 47,216 | 1,943 | 116 | 43,733 | 45,792 |
| Dec-84 | 47,178 | 1,959 | 130 | 43,810 | 45,899 |
| Sep-85 | 47,138 | 2,012 | 132 | 43,651 | 45,795 |
| Dec-85 | 47,245 | 2,033 | 136 | 43,660 | 45,829 |
| Sep-86 | 46,682 | 2,022 | 140 | 43,477 | 45,639 |
| Dec-86 | 46,809 | 2,050 | 144 | 43,438 | 45,632 |
| Sep-87 | 47,897 | 2,142 | 152 | 44,204 | 46,498 |
| Dec-87 | 47,907 | 2,156 | 157 | 44,148 | 46,461 |
| Sep-88 | 49,002 | 2,267 | 159 | 45,119 | 47,545 |
| Dec-88 | 49,210 | 2,315 | 158 | 45.237 | 47,710 |
| Sep-89 | 50,875 | 2,474 | 159 | 46,7 3 | 49,386 |
| Dec-89 | 50,977 | 2,630 | 172 | 46,716 | 49,518 |
| Sep-90 | 52,010 | 2,809 | 197 | 47,635 | 50,641 |
| Dec-90 | 51,269 | 2,849 | 213 | 46,916 | 49,978 |
| Sep-91 | 53,959 | 3,072 | 274 | 48,971 | 52,317 |
| Dec-91 | 54,119 | 3,153 | 301 | 48,949 | 52,403 |
| Sep-92 | 53,972 | 3,260 | 322 | 48,876 | 52,458 |
| Dec-92 | 53,871 | 3,360 | 331 | 48,690 | 52,381 |

NOTE: FAA Total Paid includes full-time, part-time, and intermittent. Full time includes permanent paid full-time employees who occupy permanent positions.

Washington Office includes all paid Washington headquarters employees whise duty station is Washington, D.C.

Washington Field includes all paid Washington, D.C. employees in other states or foreign countries.

Other Field includes all paid employees whose duty stations are in the regions or centers.

TABLE 1.3 NUMBER OF TOTAL PAID FAA EMPLOYEES AS OF DECEMBER 31, 1983–1992

| Occupation | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total | 46,993 | 47,178 | 47,245 | 46,809 | 47,907 | 49,210 | 50,977 | 51,269 | 54,119 | 53,871 |
| Air Traffic Control Specialists | 21,271 | 21,759 | 22,114 | 22,036 | 22,651 | 23,520 | 24,368 | 24,339 | 25,293 | 24,983 |
| Electronics Technicians | 7,633 | 7,229 | 6,856 | 6,800 | 6,788 | 6,627 | 6,508 | 6,458 | 6,641 | 6,572 |
| Aviation Safety Inspectors | 1,805 | 1,945 | 1,897 | 2,204 | 2,350 | 2,499 | 2,766 | 2,984 | 3,101 | 3,017 |
| Engineers | 2,313 | 2,419 | 2,450 | 2,417 | 2,579 | 2,640 | 2,657 | 2,736 | 3,073 | 3,208 |
| All Others | 13,971 | 13,826 | 13,928 | 13,552 | 13,539 | 13,924 | 14,678 | 14,752 | 16,011 | 16,091 |

II. THE NATIONAL AIRSPACE SYSTEM

This chapter furnishes terminal and en route air traffic activity information for the National Airspace System for fiscal and calendar years. The data have been reported by the FAA-operated Airport Traffic Control Towers, Air Route Traffic Control Centers, and flight service facilities (Flight Service Stations, Automated Flight Service Stations and International Flight Service Stations). These reports are used as a guide in determining the need for larger or additional facilities, and possible changes in the number of personnel at existing facilities.

Terminal information includes airport operations, instrument operations, and instrument approaches. Airport operations are landings and takeoffs. They are reported by towers by aviation categories--air carrier, air taxi, general aviation, and military. Instrument operations are takeoffs, landings, and overflights of aircraft operating in accordance with an IFR flight plan. Instrument approaches are approaches made to an airport by an aircraft on an IFR flight plan under IFR weather conditions.

Data for Air Route Traffic Control Centers (ARTCCs) include departures, overflights, and aircraft handled.

Activities for Flight Service Stations, Automated Flight Service Stations and International Flight Service Stations include flight plans originated, airport advisories, pilot briefs, and aircraft contacted.

More detailed data pertaining to activity of these facilities may be found in FAA Air Traffic Activity.

TABLE 2.11 U.S. AIR ROUTE AIRWAY MILEAGE: 1982-1989

(Contiguous 48 States)

| | Very High I | Frequency VOR/V | ORTAC |
|-------------|-------------|-----------------|------------|
| December 31 | Low Alti | lad Daydon | |
| | Direct | Alternate | Jet Routes |
| 1982 | 167,637 | 20,067 | 138,438 |
| 1983 | 169,471 | 15,359 | 139,477 |
| 1984 | 171,873 | 12,188 | 141,199 |
| 1985 | 182,182 | 3,306 | 142,658 |
| 1986 | 184,229 | 905 | 146,869 |
| 1987 | 184,644 | 543 | 147,678 |
| 1988 | 185,166 | 543 | 149,057 |
| 1989 | 185,637 | 470 | 150,496 |
| 1990 | No | longer | available |
| 1991 | No | longer | available |
| 1992 | No | longer | available |

¹ Mileage shown in nautical miles based on National Ocean Survey figures.

TABLE 2.2 FAA AIR ROUTE FACILITIES AND SERVICES: 1983-1992

| December 31 | VOR/ VORTAC | Nondirec- tional Radio Beacons | Air Route Traffic Control Centers | Airport Traffic Control Towers | Flight Service Stations | International Flight Service Stations | Instrument Landing Systems | Radar Equipment |
|-------------|----------------|---|--|--------------------------------------|----------------------------|---|----------------------------------|--------------------|
| 1983 | 1,032 | 1,183 | 25 | 494 | 316 | 5 | 934 | 197 |
| 1984 | 1,035 | 1,211 | 25 | 497 | 310 | 5 | 955 | 197 |
| 1985 | 1,039 | 1,222 | 25 | 500 | 302 | [4 [| 968 | 198 |
| 1986 | 1,043 | 1,239 | 25 | 686 | 293 | 3 | 977 | 312 |
| 1987 | 1,045 | 1,262 | 25 | 686 | 253 | 3 | 1,111 | 312 |
| 1988 | 1,043 | 1,287 | 24 | 692 | 220 | 3 | 1,130 | 311 |
| 1989 | 1,044 | 1,263 | 24 | 693 | 199 | 3 | 1,147 | 312 |
| 1990 | 1,044 | 1,309 | 24 | 691 | 180 | 3 | 1,114 | 317 |
| 1991 | 1,044 | 1,323 | 24 | 692 | 175 | 3 | 1,186 | 318 |
| 1992 | 1,0391 | 1,3352 | 243 | 6904 | 1445 | 2 | 1,2126 | 3147 |

<sup>Includes 71 nonfederal and 37 military.
Includes 965 nonfederal and 68 military.
Includes 965 nonfederal and 68 military.
Includes 3 combined center/radar approach control facilities (CERAP).
Includes 68 nonfederal and 201 military.
Includes 68 nonfederal and 201 military.
Includes 55 Automated Flight Service Stations
Includes 23 Landing Directional Aids (LDA), 175 nonfederal, 22 military, 214 partial, 5 Interim Microwave Landing Systems (ISMLS), and 28Simplified Direction Finders (SDF).
Includes FAA, military and nonfederal</sup>

FISCAL YEARS
(TABLES 2.3-2.10)

TABLE 2.3 AIR TRAFFIC ACTIVITY AT AIR ROUTE TRAFFIC CONTROL CENTERS, BY AVIATION CATEGORY **FISCAL YEARS 1988-1992**

| | 1 1 | | | | | Aircraft Ha | andled | | | | |
|-------------|------|------------|------------------|------------|------------------|-------------|------------------|------------------|------------------|-----------|------------------|
| | Year | Tota | Total | | Air Carrier | | axi | General Aviation | | Military | |
| | | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| IFR | 1992 | 36,728,538 | 1% | 18,347,269 | +3 | 5,864,392 | 5% | 7,393,276 | +3 | 5,123,601 | -1% |
| Aircraft | 1991 | 36,379,492 | -3% | 18,276,830 | -1% | 5,563,610 | -1% | 7,389,654 | -7% | 5,149,398 | -5% |
| Handled 1 | 1990 | 37,557,043 | 3% | 18,545,718 | 6% | 5,633,464 | 9% | 7,931,305 | -3% | 5,446,556 | -5% |
| | 1989 | 36,617,064 | 1% | 17,524,155 | -2% | 5,187,998 | -11% | 8,197,964 | 2% | 5,706,947 | 25% |
| | 1988 | 36,350,374 | 2% | 17,885,859 | 5% | 5,834,717 | 10% | 8,053,133 | -1% | 4,576,665 | -14% |
| IFR | 1992 | 13,725,661 | 1% | 6,180,967 | -3 | 2,727,617 | 4% | 3,067,703 | -3 | 1,749,374 | 1% |
| Departures | 1991 | 13,632,611 | -3% | 6,207,359 | -2% | 2,610,464 | -1% | 3,074,125 | -7% | 1,740,663 | -5% |
| | 1990 | 14,123,535 | 2% | 6,348,263 | 5% | 2,649,292 | 7% | 3,299,757 | -3% | 1,826,223 | -5% |
| | 1989 | 13,856,587 | +3 | 6,045,411 | -2% | 2,467,571 | -10% | 3,418,090 | 2% | 1,925,515 | 24% |
| | 1988 | 13,803,103 | +3 | 6,146,443 | 2% | 2,741,782 | 12% | 3,355,842 | -1% | 1,559,036 | -17% |
| IFR Overs 2 | 1992 | 9,277,216 | 2% | 5,985,335 | 2% | 409,158 | 19% | 1,257,870 | 1% | 1,624,853 | -3% |
| | 1991 | 9,114,270 | -2% | 5,862,112 | +3 | 342,682 | 2% | 1,241,404 | -7% | 1,668,072 | -7% |
| | 1990 | 9,309,973 | 5% | 5,849,192 | 8% | 334,880 | 32% | 1,331,791 | -2% | 1,794,110 | -3% |
| | 1989 | 8,903,890 | 2% | 5,433,333 | -3% | 252,856 | -28% | 1,361,784 | 2% | 1,855,917 | 27% |
| | 1988 | 8,744,168 | 6% | 5,592,973 | 11% | 351,153 | -4% | 1,341,449 | 2% | 1,458,593 | -6% |
| | 1987 | 8,257,869 | 7% | 5,029,040 | 10% | 365,839 | 5% | 1,316,779 | 5% | 1,546,211 | 2% |

 ¹ The number of IFR Departures multiplied by two, plus the number of IFR Overs.
 2 Domestic plus oceanic overs.
 3 Less than 0.5 percent.

TABLE 2.4 AIR TRAFFIC ACTIVITY AT AIRPORT TRAFFIC CONTROL TOWERS, **BY AVIATION CATEGORY FISCAL YEARS 1988–1992**

| | | | | | | Airport Ope | erations | | | | |
|---------------|------|------------|------------------|-------------|------------------|-------------|------------------|------------------|------------------|-----------|------------------|
| | Year | 'ear Total | | Air Carrier | | Air Taxi | | General Aviation | | Military | |
| | | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Total Airport | 1992 | 61,471,727 | -1 | 12,435,044 | -1% | 9,307,272 | 5% | 36,945,360 | -2% | 2,784,051 | 11% |
| Operations | 1991 | 61,485,577 | -3% | 12,504,124 | -3% | 8,899,633 | 1% | 37,578,303 | -4% | 2,503,517 | -11% |
| | 1990 | 63,668,880 | 4% | 12,858,718 | 3% | 8,837,671 | 7% | 39,169,795 | 4% | 2,802,696 | 1% |
| | 1989 | 61,345,173 | +1 | 12,519,891 | -2% | 8,296,725 | 1% | 37,753,005 | 1% | 2,775,552 |] .1 |
| | 1988 | 61,299,017 | 1% | 12,752,997 | -2% | 8,255,279 | 12% | 37,503,249 | -1% | 2,787,492 | 2% |
| ltinerant | 1992 | 44,474,828 | 1% | 12,435,044 | -1% | 9,307,272 | 5% | 21,280,913 | -1% | 1451599 | 11% |
| Operations | 1991 | 44,247,205 | -3% | 12,504,124 | -3% | 8,899,633 | 1% | 21,538,486 | -4% | 1,304,962 | -9% |
| | 1990 | 45,609,732 | 3% | 12,858,718 | 3% | 8,837,671 | 7% | 22,479,781 | 2% | 1,433,562 | 1% |
| | 1989 | 44,307,914 | -1 | 12,519,891 | -2% | 8,296,725 | 1% | 22,078,592 | -1 | 1,412,706 | _1 |
| | 1988 | 44,521,425 | 1% | 12,752,997 | -2% | 8,255,279 | 12% | 22,096,026 | +1 | 1,417,123 | 3% |
| Local | 1992 | 16,996,899 | -1% | _ | _ | _ | · | 15,664,447 | -2% | 1,332,452 | 11% |
| Operations | 1991 | 17,238,372 | -5% | | _ | | − | 16,039,817 | -4% | 1,198,555 | -12% |
| • | 1990 | 18,059,148 | 6% | _ | _ | _ | - | 16,690,014 | 6% | 1,369,134 | .1 |
| | 1989 | 17,037,259 | 2% | | _ | | _ | 15,674,413 | 2% | 1,362,846 | -1% |
| | 1988 | 16,777,592 | -2% | _ | _ | _ | | 15,407,223 | -2% | 1,370,369 | 1% |

¹ Less than 0.5 percent.

TABLE 2.5 AIR TRAFFIC ACTIVITY AT FAA FACILITIES, BY AVIATION CATEGORY **FISCAL YEARS 1988-1992**

| | | Tota | ıi . | Air Ca | rrier | Air Ta | axi | General A | viation | Milita | ry |
|------------------|------|------------|------------------|------------|------------------|-----------|------------------|------------|------------------|-----------|------------------|
| | Year | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Total Instrument | 1992 | 45,658,593 | 1% | 13,450,145 | -1% | 9,895,443 | 5% | 18,172,317 | +2 | 4,140,688 | 4% |
| Operations | 1991 | 45,056,976 | -4% | 13,533,872 | -3% | 9,452,089 | 1% | 18,101,326 | -5% | 3,969,689 | -10% |
| | 1990 | 46,866,201 | 4% | 13,999,470 | 3% | 9,382,285 | 9% | 19,084,764 | 2% | 4,399,682 | 4% |
| | 1989 | 45,225,344 | 2% | 13,567,597 | 1% | 8,625,280 | 2% | 18,794,460 | 3% | 4,238,007 | -4% |
| | 1988 | 44,544,281 | 3% | 13,422,772 | -2% | 8,449,004 | 15% | 18,269,083 | 2% | 4,403,422 | -1% |
| Total Instrument | 1992 | 2,477,052 | 20% | 795,356 | 9% | 637,871 | 22% | 936,776 | 29% | 107,049 | 18% |
| Approaches | 1991 | 2,068,390 | -3% | 729,217 | 4% | 524,734 | -2 | 723,747 | -11% | 90,692 | +2 |
| | 1990 | 2,130,532 | -8% | 703,116 | -19% | 525,242 | 3% | 811,899 | 2% | 90,275 | -35% |
| | 1989 | 2,308,880 | 21% | 865,456 | 25% | 509,982 | 14% | 793,572 | 20% | 139,870 | 25% |
| | 1988 | 1,914,612 | -17% | 692,218 | -20% | 447,950 | -7% | 662,965 | -19% | 111,479 | -17% |
| Total Instrument | 1992 | 2,265,779 | 20% | 783,014 | 9% | 568,162 | 21% | 821,881 | 32% | 92,722 | 19% |
| Approaches at | 1991 | 1,888,680 | -1% | 716,160 | 4% | 471,321 | 3% | 623,178 | -9% | 78,021 | 5% |
| Control | 1990 | 1,904,416 | -10% | 687,871 | -19% | 457,859 | 1% | 684,641 | -2% | 74,045 | -40% |
| Facilities 1 | 1969 | 2,126,745 | 23% | 853,328 | 26% | 452,821 | 20% | 697,751 | 23% | 122,845 | 24% |
| | 1988 | 1,723,434 | -19% | 678,902 | -20% | 378,679 | -11% | 567,154 | -22% | 98,699 | -20% |
| | 1987 | 2,123,347 | -11% | 853,670 | -14% | 423,214 | -4% | 723,447 | -13% | 123,016 | -3% |

¹ Excludes instrument approaches provided by Air Route Traffic Control Centers. ² Less than 0.5 percent

TABLE 2.6 AIR TRAFFIC ACTIVITY AT FLIGHT SERVICE FACILITIES **FISCAL YEARS 1988–1992**

| | | Flight Sen | rices 1 | | | Flight Plans | Originated | | | Airport Ad | visories | Pilot Br | iefs |
|----------------|------|------------|------------------|-----------|------------------|--------------|------------------|-----------|------------------|------------|------------------|------------|------------------|
| | Year | Total | Annual Change | Total | Annual Change | IFR-DVFR | Annual Change | VFR | Annual Change | Total | Annual Change | Total | Annual Change |
| Flight Service | 1982 | 39,734,200 | -3% | 6,436,661 | -3% | 4,834,776 | -2% | 1,601,885 | -5% | 1,284,261 | -3% | 10,683,101 | -39 |
| Stations & | 1991 | 41,056,343 | -8% | 6,607,763 | -10% | 4,921,277 | -11% | 1,686,486 | -6% | 1,317,795 | -18% | 11,031,195 | -73 |
| Automated | 1990 | 44,583,131 | -4% | 7,317,145 | -5% | 5,531,253 | -6% | 1,785,892 | -3% | 1,603,503 | -5% | 11,807,920 | -49 |
| Flight Service | 1989 | 46,591,219 | 1% | 7,740,378 | -2% | 5,906,715 | -2% | 1,833,663 | -2% | 1,685,876 | -14% | 12,312,729 | 39 |
| Stations | 1988 | 46,317,697 | -6% | 7,870,389 | -1% | 5,999,828 | -2% | 1,870,561 | +2 | 1,959,030 | -19% | 11,927,540 | -89 |
| Flight Service | 1992 | 7,324,711 | -14% | 1,023,522 | -14% | 648,920 | -16% | 374,602 | -11% | 1,147,593 | -2% | 1.558.845 | -189 |
| Stations | 1991 | 8,501,245 | -38% | 1,195,529 | -41% | 773,212 | -43% | 422,317 | -38% | 1,172,012 | -18% | 1,899,323 | -419 |
| | 1990 | 13,755,655 | -26% | 2.042.210 | -28% | 1,364,436 | -33% | 677,774 | -16% | 1,429,085 | -9% | 3,245,861 | -29% |
| | 1969 | 18,543,627 | -19% | 2.841.857 | -21% | 2,030,422 | -23% | 811,435 | -17% | 1,573,261 | -15% | 4.566.693 | -199 |
| | 1988 | 22,813,145 | -28% | 3,596,391 | -26% | 2,623,227 | -28% | 973,164 | -17% | 1,856,160 | -19% | 5,665,213 | -319 |
| Autometed | 1992 | 32,409,489 | | 5,413,139 | +2 | 4,185,856 | 1% | 1,227,283 | -3% | 136,668 | -6% | 9,124,256 | |
| Flight Service | 1991 | 32,555,098 | 6% | 5,412,234 | 3% | 4,148,065 | .2 | 1,264,169 | 14% | 145,783 | -16% | 9,131,872 | 7% |
| Stations | 1990 | 30,827,478 | 10% | 5,274,935 | 8% | 4,166,817 | 7% | 1,108,118 | 8% | 174,418 | 55% | 8.562.059 | 119 |
| # | 1989 | 28.047.592 | 19% | 4.898.521 | 15% | 3,876,293 | 15% | 1,022,228 | 14% | 112,615 | 9% | 7.724,036 | 23% |
| | 1968 | 23,504,552 | 33% | 4,273,998 | 36% | 3,376,601 | 38% | 897,397 | 30% | 102,870 | 12% | 6,262,327 | 31% |

¹ The sum of flight plans originated and pilot briefs, multiplied by two, plus the number of aircraft contacted (see Table 2.7). No credit is allowed for airport advisories.

*Less than 0.5 percent.

TABLE 2.7 AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY FISCAL YEARS 1988–1992

| | | | | | | Aircraft Co | ntacted | | | | |
|----------------|------|-----------|------------------|---------|------------------|-------------|------------------|-----------|------------------|---------|------------------|
| | Year | Tota | | Air Ca | rrier | Air Ta | axi | General A | viation | Milita | ıry |
| | | Total | Annual Change | Total | Anrual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Flight Service | 1992 | 5,494,676 | -5% | 198,582 | -10% | 783,127 | -5% | 4,129,578 | -6% | 383,389 | 6% |
| Stations & | 1991 | 5,778,427 | -9% | 220,075 | -13% | 820,886 | -3% | 4,376,481 | -9% | 360,985 | -17% |
| Automated | 1990 | 6,333,001 | -2% | 252,571 | -4% | 849,578 | -7% | 4,795,332 | -2% | 435,520 | \ |
| Flight Service | 1989 | 6,485,005 | -4% | 263,352 | -11% | 911,322 | -8% | 4,873,102 | -3% | 437,229 | 2% |
| Stations | 1988 | 6,721,839 | -8% | 297,071 | -19% | 988,294 | -6% | 5,008,210 | -8% | 428,264 | -6% |
| IFR-DVFR | 1992 | 1,649,377 | -4% | 191,122 | -10% | 386,459 | -3% | 924,917 | -3% | 146,879 | -3% |
| | 1991 | 1,710,367 | -8% | 211,858 | -13% | 396,702 | -4% | 950,630 | -7% | 151,177 | -10% |
| | 1990 | 1,851,559 | -5% | 243,883 | -2% | 414,334 | -2% | 1,024,750 | -8% | 168,592 | -1% |
| | 1989 | 1,949,051 | 2% | 249,501 | -13% | 421,103 | -2% | 1,108,541 | 7% | 169,906 | 9% |
| | 1988 | 1,912,292 | -8% | 288,158 | -16% | 428,192 | +1 | 1,039,447 | -10% | 156,495 | -3% |
| VFR | 1992 | 3,845,299 | -5% | 7,460 | -9% | 396,668 | -6% | 3,204,661 | -6% | 236,510 | 13% |
| | 1991 | 4,068,060 | -9% | 8,217 | -5% | 424,184 | -3% | 3,425,851 | -9% | 209,808 | -21% |
| | 1990 | 4,481,442 | -1% | 8,688 | -37% | 435,244 | -11% | 3,770,582 | +1 | 266,928 | -1 |
| | 1989 | 4,535,954 | -6% | 13,851 | 55% | 490,219 | -12% | 3,764,561 | -5% | 267,323 | -2% |
| | 1988 | 4,809,547 | -8% | 8,913 | -61% | 560,102 | -10% | 3,968,763 | -7% | 271,769 | -7% |
| Flight | 1992 | 2,159,977 | -7% | 91,513 | -4% | 477,926 | -5% | 1,453,086 | -8% | 137,452 | 1% |
| Service | 1991 | 2,311,541 | -27% | 95,143 | -20% | 503,579 | -21% | 1,576,115 | -29% | 136,704 | -34% |
| Stations | 1990 | 3,179,513 | -14% | 118,593 | -8% | 635,276 | -9% | 2,217,319 | -15% | 208,325 | -10% |
| | 1989 | 3,682,527 | -14% | 129,560 | -14% | 701,557 | -12% | 2,618,735 | -15% | 232,675 | -10% |
| | 1988 | 4,289,937 | -21% | 150,807 | -38% | 795,897 | -12% | 3,085,556 | -21% | 257,677 | -24% |
| IFR-DVFR | 1992 | 564,091 | -7% | 84,545 | -3% | 210,956 | -2% | 222,477 | -12% | 46,113 | -7% |
| | 1991 | 605,313 | -25% | 87,536 | -21% | 215,408 | -21% | 252,998 | -28% | 49,371 | -34% |
| | 1990 | 810,335 | -18% | 110,378 | -8% | 272,156 | -7% | 352,616 | -27% | 75,185 | -15% |
| | 1989 | 983,475 | -11% | 120,569 | -15% | 293,704 | -11% | 481,049 | -13% | 88,153 | -1 |
| | 1988 | 1,109,597 | -25% | 142,661 | -36% | 328,401 | -8% | 550,254 | -31% | 88,281 | -22% |
| VFR | 1992 | 1,595,886 | -6% | 6,968 | -8% | 266,970 | -7% | 1,230,609 | -7% | 91,339 | 5% |
| | 1991 | 1,706,228 | -28% | 7,607 | -7% | 288,171 | -21% | 1,323,117 | -29% | 87,333 | -34% |
| | 1990 | 2,369,178 | -12% | 8,215 | -9% | 363,120 | -11% | 1,864,703 | -13% | 133,140 | -8% |
| | 1989 | 2,699,052 | -15% | 8,991 | 10% | 407,853 | -13% | 2,137,686 | -16% | 144,522 | -15% |
| | 1988 | 3,180,340 | -19% | 8,146 | -64% | 467,496 | -14% | 2,535,302 | -19% | 169,396 | -25% |
| Automated | 1992 | 3,334,699 | -4% | 107,069 | -14% | 305,201 | -4% | 2,676,492 | -4% | 245,937 | 10% |
| Flight Service | 1991 | 3,466,886 | 10% | 124,932 | -7% | 317,307 | 48% | 2,800,366 | 9% | 224,281 | -1% |
| Stations | 1990 | 3,153,488 | 13% | 133,978 | +1 | 214,302 | 2% | 2,578,013 | 14% | 227,195 | 11% |
| | 1989 | 2,802,478 | 15% | 133,792 | -9% | 209,765 | 9% | 2,254,367 | 17% | 204,554 | 20% |
| | 1988 | 2,431,902 | 30% | 146,264 | 20% | 192,397 | 31% | 1,922,654 | 29% | 170,587 | 47% |
| IFR-DVFR | 1992 | 1,085,286 | -2% | 106,577 | -14% | 175,503 | -3% | 702,440 | 1% | 100,766 | -1% |
| | 1991 | 1,105,054 | 6% | 124,322 | -7% | 181,294 | 28% | 697,632 | 4% | 101,806 | 9% |
| | 1990 | 1,041,224 | 8% | 133,505 | 4% | 142,178 | 12% | 672,134 | 7% | 93,407 | 14% |
| | 1989 | 965,576 | 20% | 128,932 | -11% | 127,399 | 28% | 627,492 | 28% | 81,753 | 20% |
| | 1988 | 802,695 | 35% | 145,497 | 21% | 99,791 | 39% | 489,193 | 37% | 68,214 | 44% |
| VFR | 1992 | 2,249,413 | -5% | 492 | -19% | 129,698 | -5% | 1,974,052 | -6% | 145,171 | 19% |
| | 1991 | 2,361,832 | 12% | 610 | 29% | 136,013 | 89% | 2,102,734 | 10% | 122,475 | -8% |
| | 1990 | 2,112,264 | 15% | 473 | -90% | 72,124 | -12% | 1,905,879 | 17% | 133,788 | 9% |
| | 1989 | 1,836,902 | 13% | 4,860 | 534% | 82,366 | -11% | 1,626,875 | 13% | 122,801 | 20% |
| | 1988 | 1,629,207 | 27% | 767 | -38% | 92,606 | 24% | 1,433,461 | 26% | 102,373 | 49% |

¹ Less than 0.5

TABLE 2.8
TOP 50 FAA-OPERATED AIRPORT TRAFFIC CONTROL TOWERS,
BY RANK ORDER OF TOTAL OPERATIONS
AND BY AVIATION CATEGORY INCLUDING AIR CARRIER RANK
FISCAL YEAR 1992

| Tower | To | tal | Air C | amer | Air Taxi | General | Military |
|--------------------------------|------|------------|-------|------------|----------|---------|----------|
| Tower | Rank | Operations | Rank | Operations | Air laxi | Avation | Military |
| Chicago O'Hare Int'i, IL | 1 | 838,093 | 1 | 618,936 | 174,724 | 41,126 | 3.30 |
| Dallas Ft. Worth Reg'l, TX | ż | 763,372 | 2 | 571,260 | 175,338 | 15,793 | 98 |
| os Angeles Int'i, CA | 3 | 678.398 | 4 | 407,152 | 193,419 | 63,675 | 13.95 |
| Atlanta Int'l. GA | 4 | 611.889 | 3 | 439,707 | 148,032 | 19,667 | 4.48 |
| Santa Ana/Orange County, CA | 5 | 557,442 | 56 | 61,887 | 27,978 | 466,982 | 59 |
| Van Nuys, CA | 6 | 530,337 | N/A | 0 | 660 | 529,199 | 470 |
| Denver Stapleton Int'l, CO | 7 | 499,001 | 5 | 316,128 | 149,913 | 31,580 | 1,38 |
| Phoenix Sky Harbor Int'l, AZ | 8 ' | 487,615 | 6 | 300,352 | 72,710 | 104,931 | 9,62 |
| Wiami Int'l, FL | 9 | 486,222 | 11 | 274,964 | 126,034 | 75,569 | 9,65 |
| Boston Logan, MA | 10 | 482,582 | 15 | 242,253 | 207,689 | 31,954 | 68 |
| Charlotte Douglas, NC | 11 | 466,351 | 13 | 264,170 | 130,185 | 66,636 | 5,36 |
| Long Beach, CA | 12 | 431,835 | 104 | 16,846 | 4,135 | 408,598 | 2,25 |
| St. Louis Int'i, MO | 13 | 429,473 | 12 | 273,790 | 110,151 | 36,502 | 9,03 |
| San Francisco, CA | 14 | 424,829 | 7 | 296,904 | 92,850 | 32,656 | 2,419 |
| Pittsburgh Greater Int'i, PA | 15 | 421,903 | 9 | 280,605 | 116,642 | 19,958 | 4,69 |
| Oakland Int'l, CA | 16 | 419,233 | 38 | 107,669 | 51,982 | 258,642 | 94 |
| Seattle Boeing, WA | 17 | 414,341 | 155 | 5,918 | 28,017 | 376,324 | 4,08 |
| Honolulu, HI | 18 | 413,725 | 20 | 201,999 | 59,984 | 119,896 | 31,84 |
| Detroit Metro Wayne, MI | 19 | 413,544 | 10 | 277,880 | 83,788 | 49,804 | 2,07 |
| Las Vegas McCarran, NV | 20 | 407,668 | 21 | 201,688 | 95,365 | 103,513 | 7,10 |
| Minneapolis/St. Paul Int'l, MN | 21 | 404,243 | 16 | 241,984 | 80,128 | 79,139 | 2,99 |
| Newark, NJ | 22 | 403,978 | 8 | 283,651 | 99,125 | 20,730 | 47 |
| Philadelphia Int'i, PA | 23 | 377,033 | 19 | 204,628 | 120,609 | 45,543 | 6,25 |
| Denver Centennial, CO | 24 | 371,478 | N/A | 0) | 4,876 | 358,174 | 8,42 |
| Pontiac, MI | 25 | 348,645 | 225 | 178 | 12,346 | 335,289 | 83: |
| Seattle-Tacoma, WA | 26 | 346,180 | 23 | 194,776 | 141,933 | 9,159 | 31 |
| Memphis Int'l, TN | 27 | 344,855 | 25 | 165,445 | 114,130 | 59,524 | 5,55 |
| San Jose Int'i, CA | 28 | 342,918 | 40 | 95,874 | 55,792 | 190,205 | 1,04 |
| La Guardia, NY | 29 | 337,279 | 14 | 254,848 | 65,356 | 16,754 | 32 |
| John F Kennedy, NY | 30 | 328,528 | 18 | 205,689 | 106,262 | 16,111 | 46 |
| Fort Worth Meacham, TX | 31 | 325,212 | 220 | 353 | 828 | 323,317 | 714 |
| Houston Intercontinental, TX | 32 | 320,243 | 17 | 218,906 | 56,857 | 42,473 | 2,00 |
| Salt Lake City Int'l, UT | 33 | 316,783 | 26 | 159,920 | 67,725 | 83,772 | 5,36 |
| Daytona Beach, FL | 34 | 312,701 | 116 | 13,173 | 7,257 | 291,222 | 1,04 |
| Washington National, DC | 35 | 312,014 | 24 | 183,722 | 71,319 | 56,443 | 534 |
| Cincinnati Greater, KY | 36 | 304,214 | 27 | 151,969 | 139,412 | 11,650 | 1,18 |
| Nashville Metropolitan, TN | 37 | 302 030 | 28 | 132,715 | 102,921 | 59,891 | 6,50 |
| Orlando Int'l. FL | 38 | 294. 37 | 22 | 201,452 | 64,918 | 23,229 | 4,78 |
| Concord, CA | 39 | 291,613 | NA | 0 | 1,262 | 289,432 | 91 |
| Raleigh Durham, NC | 40 | 289,462 | 35 | 119,964 | 88,995 | 71,220 | 9,28 |
| Tamiami, FL | 41 | 287,831 | NA | i ol | 602 | 280,665 | 6,56 |
| Washington Dulles Int'l, VA | 42 | 287,111 | 37 | 108,317 | 116,066 | 54,968 | 7,76 |
| Prescott, AZ | 43 | 285,914 | N/A | 0 | 8,556 | 276,849 | 50: |
| Portland, OR | 44 | 269,445 | 43 | 89,014 | 105,966 | 60,628 | 13,83 |
| Baltimore Washington Int'l, MD | 45 | 265,844 | 30 | 128,648 | 85,862 | 47,830 | 3,50 |
| Tulsa Riverside, OK | 46 | 265,809 | N/A | ol | 16 | 265,787 | |
| La Verne Brackett, CA | 47 | 251,131 | N/A | 0 | 1,557 | 249,300 | 27 |
| Indianapolis, IN | 48 | 247,553 | 31 | 122,249 | 73,322 | 50,431 | 1,55 |
| Livermore, CA | 49 | 246,838 | N/A | 0 | 467 | 245,239 | 1,13 |
| Houston Hobby, TX | 50 | 242,999 | 34 | 120,084 | 11,286 | 110,193 | 1,43 |

NA Not applicable.

NOTE: Total Operations rank was based on total air traffic activity at 401 FAA-Operated Towers. Air Carrier operations rank was based on air carrier activity at 298 FAA-Operated Towers. Not all FAA-Operated Towers handle air carrier operations.

TABLE 2.9
TOP 50 FAA-OPERATED AIRPORT TRAFFIC CONTROL TOWERS,
BY RANK ORDER OF AIR CARRIER OPERATIONS
AND BY AVIATION CATEGORY INCLUDING TOTAL OPERATIONS RANK
FISCAL YEAR 1992

| Tower | Air C | arrier | Air Taxi | General | Military - | Tol | |
|---------------------------------|----------|--------------------|------------------|-------------------|----------------|------------|------------------|
| TOWE | Rank | Operations | All IGAI | Avation | mmiles y | Rank | Operations |
| Chicago O'Hare Int'l, IL | 1 | 618,936 | 174,724 | 41,126 | 3.307 | 1 | 838,09 |
| Dalles Ft. Worth Reg'l, TX | 2 | 571,260 | 175,338 | 15,793 | 981 | 2 | 763.37 |
| Atlanta Int'i, GA | 3 | 439,707 | 148,032 | 19,667 | 4.483 | 4 | 611,88 |
| os Angeles Int'i, CA | 4 | 407,152 | 193,419 | 63.875 | 13,952 | 3 | 678,39 |
| Denver Stapleton Int'l, CO | 5 | 316,128 | 149,913 | 31,580 | 1,380 | 7 | 499,00 |
| Phoenix Sky Harbor Int'l, AZ | 6 | 300,352 | 72,710 | 104,931 | 9,622 | 8 | 487,61 |
| San Francisco, CA | 7 | 296,904 | 92,850 | 32,656 | 2,419 | 14 | 424.82 |
| lewark, NJ | 8 | 283,651 | 99,125 | 20,730 | 472 | 22 | 403,97 |
| Pittsburgh Greater Int'l, PA | 9 | 280,605 | 116,642 | 19,958 | 4.698 | 15 | 421,90 |
| Detroit Metro Wayne, MI | 10 | 277,880 | 83,788 | 49,804 | 2,072 | 19 | 413,54 |
| flami Int'l, FL | 11 | 274,964 | 126,034 | 75,569 | 9,655 | 9 | 486,22 |
| St. Louis Int'l, MO | 12 | 273,790 | 110,151 | 36,502 | 9,030 | 13 | 429,47 |
| Charlotte Douglas, NC | 13 | 264,170 | 130,185 | 66,636 | 5,360 | 11 | 466,35 |
| a Guardia, NY | 14 | 254,848 | 65,356 | 16,754 | 321 | 29 | 337.27 |
| Boston Logan, MA | 15 | 242,253 | 207,689 | 31,954 | 686 | 10 | 482,58 |
| /linneapolis/St. Paul Int'l, MN | 16 | 241,984 | 80,128 | 79,139 | 2,992 | 21 | 404,24 |
| louston Intercontinental, TX | 17 | 218,906 | 56,857 | 42,473 | 2,007 | 32 | 320,24 |
| lohn F Kennedy, NY | 18 | 205,689 | 106,262 | 16,111 | 466 | 30 | 328,52 |
| Philadelphia Int'il, PA | 19 | 204,628 | 120,609 | 45,543 | 6,253 | 23 | 377.03 |
| tonolulu, HI | 20 | 201,999 | 59,984 | 119,896 | 31,846 | 18 | 413,72 |
| as Vegas McCarran, NV | 21 | 201,688 | 95,365 | 103,513 | 7,102 | 20 | 407,66 |
| Orlando Int'i, FL | 22 | 201,452 | 64,918 | 23,229 | 4,788 | 38 | 294,38 |
| Seattle-Tacoma, WA | 23 | 194,776 | 141,933 | 9,159 | 312 | 26 | 346,18 |
| Vashington National, DC | 24 | 183,722 | 71,319 | 56,443 | 530 | 35 | 312.01 |
| Memphis Int'i, TN | 25 | 165,445 | 114,130 | 59,524 | 5,556 | 27 | 344,65 |
| Salt Lake City Int'l, UT | 26 | 159,920 | 67,725 | 83,772 | 5,366 | 33 | 316,78 |
| Cincinnati Greater, KY | 27 | 151,969 | 139,412 | 11,650 | 1,183 | 36 | 304,21 |
| lashville Metropolitan, TN | 28 | 132,715 | 102,921 | 59,891 | 6,503 | 37 | 302,03 |
| San Diego Lindberg, CA | 29 | 132,701 | 54,138 | 22,797 | 5,208 | 72 | 214,84 |
| Baltimore Washington Int'l, MD | 30 | 128,648 | 85,862 | 47,830 | 3,504 | 45 | 265,84 |
| ndianapolis, IN | 31 | 122,249 | 73,322 | 50,431 | 1,551 | 48 | 247,55 |
| Cleveland Hopkins, OH | 32 | 122,026 | 80,467 | 31,660 | 3,063 | 55 | 237,21 |
| Tampa Int'i, FL | 33 | 120,479 | 58,170 | 48,323 | 2,498 | 61 | 229,47 |
| louston Hobby, TX | 34 | 120,084 | 11,286 | 110,193 | 1,436 | 50 | 242,99 |
| Raleigh Durham, NC | 35 | 119,964 | 88,995 | 71,220 | 9,283 | 40 | 289,46 |
| Cansas City Int'l. MO | 36 | 110,356 | 49,265 | 15,502 | 1,631 | 118 | 176,75 |
| Vashington Dulles Int'l, VA | 37 | 108,317 | 116,066 | 54,968 | 7,760 | 42 | 287,11 |
| Dakland Int'i, CA | 38 | 107,669 | 51,982 | 258,642 | 940 | 16 | 419,23 |
| Anchorage Int'i, AK | 39 | 98,226 | 82,725 | 52,027 | 3,741 | 57 | 236,71 |
| San Jose Int'i, CA | 40 | 95,874 | 55,792 | 190,205 | 1,047 | 28 | 342,91 |
| Ontario, CA | 41 | 92,506 | 29,399 | 30,584 | 446 | 152 | 152,93 |
| Dallas Love Field, TX | 42 | 89,174 | 24,110 | 97,408 | 1,357 | 75 | 212,04 |
| Portland, OR | 43 | 89,014 | 105,966 | 60,628 | 13,837 | 44 | 269,44 |
| New Orleans Molsant, LA | 44 45 | 88,579 83,553 | 23,483 27,637 | 23,246 38,505 | 2,065 6,388 | 178 147 | 137,37 156,08 |
| i i | | • | · · | | -, | | • |
| Fort Lauderdale, FL | 46 47 | 83,157 76,495 | 45,128 23,840 | 74,474 103,846 | 1,424 5,882 | 81 78 | 204,18 210.06 |
| Ailwaukee Mitchell, WI | 48 | 76,495 74.545 | 23,640 56,727 | 63,900 | | /8 86 | 210,06 |
| Port Columbus, OH | 46 49 | | | | 7,114 | | , |
| | | 74,081 | 55,814 | 90,563 | 4,140 | 67 | 224,59 |
| San Juan, PR | 50 | 71,408 | 92,253 | 35,717 | 6,182 | 80 | 205,56 |

NOTE: Total Operations rank was based on total air traffic activity at 401 FAA-Operated Towers. Air Carrier operations rank was based on air carrier activity at 298 FAA-Operated Towers. Not all FAA-Operated Towers handle air carrier operations.

TABLE 2.10 TOTAL FAA AIR TRAFFIC ACTIVITY BY REGION AND STATE, AND BY FAA-OPERATED TOWERS,AIR ROUTE TRAFFIC CONTROL CENTERS, FLIGHT SERVICE STATIONS, AND INTERNATIONAL FLIGHT SERVICE STATIONS FISCAL YEAR 1992

| FAA Region and State | Airport Operations (Towers) | Aircraft Handled (Centers) | Aircraft Contacted (Flight Service Stations) * | Total Flight Services (Flight Service Station)* |
|-------------------------------|--------------------------------|-------------------------------|--|--|
| AL | 61,471,727 | 36,728,538 | 5,494,676 | 39,734,2 |
| Alesken—Total | 1,103,903 | 507,968 | 907,205 | 2,049,1 |
| CentralTotal | 2,337,902 | 1,755,884 | 280,893 | 2,778,5 |
| lowa | 414,816 | _ | 45,909 | 510,3 |
| Kansas | 474,558 | 4 755 004 | 55,909 | 538,1 |
| Missouri | 1,168,556 | 1,755,884 | 128,679 50,396 | 1,360,9 369,0 |
| Nebraska | 279,972 8.022.845 | 4,161,183 | 431,444 | 4,929,4 |
| Eastern—Total | 169,646 | 4,101,103 | 401,444 | 7,828,7 |
| District of Columbia | 312,014 | 2.212.032 | 81,430 | 874.2 |
| Maryland | 477,715 | | 56.338 | 103.9 |
| New Jersey | 1,290,348 | _ | 54,577 | 717.7 |
| New York | 2,434,915 | 1,949,151 | 66,415 | 1,072,0 |
| Pennsylvania | 1,889,120 | | 91,704 | 1,600.7 |
| Virginia | 1.079.582 | _ | 12,679 | 172.1 |
| West Virginia | 369,505 | | 68,301 | 388.4 |
| Great Lakes—Total | 9,161,683 | 8.634.362 | 611,773 | 6.264,7 |
| (flinois | 2,523,995 | 2,552,868 | 63,424 | 937,0 |
| Indiana | 806,986 | 1,911,845 | 67,629 | 785,7 |
| Michigan | 2,013,665 | · · · · · — | 62,991 | 1,018,4 |
| Minnesota | 1,054,328 | 1,773,721 | 112,104 | 793,8 |
| North Dakota | 425,956 | _ · · · - | 43,348 | 433,3 |
| Ohio | 1,311,232 | 2,395,928 | 74,143 | 1,208, |
| South Dakota | 163,542 | | 101,394 | 382, |
| Wisconsin | 861,979 | _ | 86,740 | 705,0 |
| New England—Total | 3,013,820 | 1,590,450 | 131,401 | 1,724, |
| Connecticut | 755,100 | · · · - | 62,407 | 905, |
| Maine | 230,076 | _ | 30,705 | 382, |
| Massachusetts | 1,589,399 | 1,590,450 | | |
| New Hampshire | 171,179 | | _ | |
| Rhode Island | 146,937 | _ | | |
| Vermont | 121,129 | _ | 38,289 | 436,0 |
| Northwest Mountain—Total | 5,511,628 | 4,068,926 | 738,857 | 3,547,0 |
| Colorado | 1,459,153 | 1,393,692 | 130,482 | 781 <i>,</i> |
| Idaho | 409,425 | _ | 44,188 | 225, |
| Montana | 304,510 | _ | 137,654 | 395, |
| Oregon | 974,675 | | 108,589 | 535, |
| Utah | 413,734 | 1,379,488 | 64,095 | 312, |
| Washington | 1,838,586 | 1,295,746 | 181,559 | 1,036, |
| Wyoming | 111,545 | | 72,290 | 260, |
| Southern—Total | 11,467,143 | 7,511,075 | 1,089,306 | 9,092, |
| Alabama | 605,450 | 2 400 074 | 101,111 | 771, |
| Florida | 5,381,208 | 3,423,974 | 399,434 | 3,331, |
| Georgia | 1,344,690 | 2,221,418 | 94,431 | 1,154, |
| Kentucky | 722,226 | - | 85,790 38,692 | 518, |
| Mississippi North Carolina | 287,331 | _ | 138.085 | 377,0 |
| Puerto Rico | 1,229,949 | _ | , | 1,103, |
| | 328,780 | _ | 64,482 52,694 | 243,9 618,3 |
| South Carolina | 424,252 | 1,865,683 | | |
| Tennessee | 963,139 180,118 | 1,000,000 | 114,587 | 973, |
| Virgin Islands | 6.804.053 | 4,996,551 | 580,291 | 4,705,7 |
| Arkansas | 339,566 | 4,880,001 | 59,456 | 475, |
| Louisiana | 989,083 | _ | 32,186 | 503.0 |
| New Mexico | 396,655 | 1,359,039 | 139,160 | 552. |
| Okiahoma | 793,440 | 1,359,039 | 87,435 | 653,6 |
| Texas | 4,285,309 | 3,637,512 | 262,054 | 2,521, |
| Western-Pacific—Total | 14,048,750 | 3,502,139 | 723,506 | 4,643, |
| American Samoa | 10,668 | J,JJA, 138 | , 20,000 | 7,043,1 |
| Arizona | 2.014.823 | _ | 123,797 | 665, |
| California | 10,392,278 | 3,405,030 | 506,817 | 3,376, |
| Guam | 10,382,270 | 97,109 | 300,617 | 3,376,1 |
| Hawaii | 905,074 | 97,109 | 40,091 | 220. |
| Nevada | 707,686 | _ | 52,801 | 380, |
| | | | | |

^{*}Includes domestic and international Flight Service Stations

CALENDAR YEARS
(TABLES 2.11-2.18)

TABLE 2.11 AIR TRAFFIC ACTIVITY AT AIR ROUTE TRAFFIC CONTROL CENTERS, **BY AVIATION CATEGORY CALENDAR YEARS 1988–1992**

| | 1 | | | | | Aircraft Ha | andled | | | | |
|------------------------|------|------------|------------------|------------|------------------|-------------|------------------|-----------|------------------|-----------|------------------|
| | Year | Tota | al . | Air Ca | rrier | Air Ta | axi | General A | viation | Milita | ry |
| | | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| IFR Aircraft | 1992 | 36,951,044 | 2% | 18,529,347 | 2% | 5,934,623 | 6% | 7,409,110 | .• | 5,077,964 | . • |
| Handled 1 | 1991 | 36,210,791 | -4% | 18,091,513 | -3% | 5,604,346 | -1% | 7,414,483 | -5% | 5,100,449 | -5% |
| | 1990 | 37,541,831 | 2% | 18,739,431 | 6% | 5,647,553 | 7% | 7,766,547 | -4% | 5,388,300 | -5% |
| | 1989 | 36,704,773 | 1% | 17,600,768 | -2% | 5,284,042 | -7% | 8,126,818 | 1% | 5,693,145 | 19% |
| | 1988 | 36,383,294 | 1% | 17,869,355 | 2% | 5,662,629 | 5% | 8,066,715 | -• | 4,784,595 | -8% |
| IIFR Departures | 1992 | 13,802,389 | 2% | 6,219,223 | 1% | 2,757,905 | 5% | 3,072,441 | _• | | |
| | 1991 | 13,559,081 | -4% | 6,133,980 | -4%] | 2,621,486 | -1% | 3,085,376 | -5% | 1,718,239 | -6% |
| | 1990 | 14,108,481 | 2% | 6,396,281 | 5% | 2,658,659 | 6% | 3,232,788 | -5% | 1,820,753 | 4% |
| | 1989 | 13,854,290 | [+•] | 6,065,044 | -1% | 2,499,739 | -6% | 3,386,246 | 1% | 1,903,261 | 17% |
| | 1988 | 13,788,054 | -1% | 6,126,722 | l -•l | 2,671,994 | 6% | 3,358,945 | -1% | 1,630,393 | -11% |
| IFR Overs ² | 1992 | 9,346,266 | 3% | 6,090,901 | 5% | 418,813 | 16% | 1,264,228 | 2% | 1,572,324 | -6% |
| | 1991 | 9,092,629 | -3% | 5,823,553 | -2% | 361,374 | 9% | 1,243,731 | -4% | 1,663,971 | -5% |
| | 1990 | 9,324,869 | 4% | 5,946,869 | 9% | 330,235 | 16% | 1,300,971 | -4% | 1,746,794 | -7% |
| | 1989 | 8,996,193 | 2% | 5,470,680 | -3% | 284,564 | -11% | 1,354,326 | +• | 1,886,623 | 24% |
| | 1988 | 8,807,186 | 5% | 5,615,911 | 9% | 318,641 | -8% | 1,348,825 | 2% | 1,523,809 | ٠. ا |

*less than 0.5 percent.

¹ The number of IFR Departures multiplied by two, plus the number of IFR Overs.

² Domestic plus oceanic overs

TABLE 2.12 AIR TRAFFIC ACTIVITY AT AIRPORT TRAFFIC CONTROL TOWERS, **BY AVIATION CATEGORY** CALENDAR YEARS 1988-1992

| | | | | | | Airport Ope | erations | | | | |
|---------------|------|------------|------------------|------------|------------------|-------------|------------------|------------|------------------|-----------|------------------|
| | Year | Tota | al Air Ca | | rrier Air Ta | | axi | General A | viation Milit | | ıry |
| | | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Total Airport | 1992 | 61,342,974 | 1% | 12,475,379 | 1% | 9,401,703 | 6% | 36,681,189 | -1% | 2,784,703 | 11% |
| Operations | 1991 | 60,844,288 | -5% | 12,336,595 | -5% | 8,911,100 | -1% | 37,084,478 | -6% | 2,512,115 | -9% |
| | 1990 | 63,962,781 | 4% | 12,948,295 | 4% | 8,968,697 | 7% | 39,297,710 | 4% | 2,748,079 | -1% |
| | 1989 | 61,321,964 | ·• | 12,484,530 | -2% | 8,356,587 | +* | 37,713,390 | +• | 2,767,457 | -2% |
| | 1988 | 61,537,927 | 1% | 12,741,239 | -3% | 8,315,411 | 10% | 37,669,713 | +* | 2,811,564 | 1% |
| ltinerant | 1992 | 44,455,692 | 1% | 12,475,379 | 1% | 9,401,703 | 6% | 21,128,552 | -1% | 1,450,058 | 10% |
| Operations | 1991 | 43,833,165 | -4% | 12,336,595 | -5% | 8,911,100 | -1% | 21,267,456 | -6% | 1,318,014 | -7% |
| | 1990 | 45,842,637 | 4% | 12,948,295 | 4% | 8,968,697 | 7% | 22,508,515 | 2% | 1,417,130 | ļ + · |
| | 1989 | 44,261,015 | -1% | 12,484,530 | -2% | 8,356,587 | +* | 22,006,509 | -1% | 1,413,389 | ٠. ا |
| | 1988 | 44,659,108 | 1% | 12,741,239 | -3% | 8,315,411 | 10% | 22,188,943 | 1% | 1,413,515 | 1% |
| Local | 1992 | 16,887,282 | -1% | | _ | - | _ | 15,552,637 | -2% | 1,334,645 | 12% |
| Operations | 1991 | 17,011,123 | -6% | _ | IÌ | _ | _i | 15,817,022 | -6% | 1,194,101 | -10% |
| - | 1990 | 18,120,144 | 6% | | J | _ | | 16,789,195 | 7% | 1,330,949 | -2% |
| | 1989 | 17,060,949 | 1% | — | _ | _ | [| 15,706,881 | 1% | 1,354,068 | -3% |
| | 1988 | 16,878,819 | -1% | | | _ | _ | 15,480,770 | -1% | 1,398,049 | 1% |

*Less than 0.5 percent.

TABLE 2.13 AIR TRAFFIC ACTIVITY AT FAA FACILITIES, **BY AVIATION CATEGORY** CALENDAR YEARS 1988-1992

| | | Tota | الد | Air Ca | rrier | Air Ta | axi | General A | Viation | Milita | ry |
|------------------|------|------------|------------------|------------|------------------|------------|------------------|------------|------------------|-----------|------------------|
| | Year | Total | Annual Change | Totai | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Total Instrument | 1992 | 45,707,585 | 2% | 13,508,463 | 1%! | 10,033,792 | 6% | 18,051,699 | +• | 4,113,631 | 3% |
| Operations | 1991 | 44,822,166 | -4% | 13,332,196 | -5% | 9,484,368 | +• | 18,025,688 | -5% | 3,979,914 | -7% |
| | 1990 | 46,935,150 | 4% | 14,103,619 | 4% | 9,538,773 | 11% | 18,995,944 | 2% | 4,296,814 | -1% |
| | 1989 | 45,055,648 | ↓ •• | 13,501,139 | +• | 8,598,447 | 1% | 18,631,727 | 1% | 4,324,335 | -3% |
| | 1988 | 44,858,714 | 2% | 13,477,165 | -2% | 8,540,039 | 13% | 18,402,606 | 2% | 4,438,904 | |
| Total Instrument | 1992 | 2,625,178 | 18% | 864,772 | 15% | 682,986 | 22% | 964,275 | 19% | 113,145 | 17% |
| Approaches | 1991 | 2,216,704 | 7% | 753,124 | 7% | 558,540 | 8% | 807,926 | 6% | 97,114 | 11% |
| | 1990 | 2,074,931 | -12% | 703,607 | -19% | 520,655 | -2% | 762,782 | -7% | 87,887 | -34% |
| | 1989 | 2,354,303 | 29% | 871,457 | 36% | 530,050 | 25% | 819,829 | 26% | 132,967 | 18% |
| | 1988 | 1,830,121 | -12% | 641,592 | -20% | 424,490 | -8% | 651,689 | -8% | 112,350 | -3% |
| Total Instrument | 1992 | 2,422,484 | 20% | 851,880 | 15% | 615,663 | 23% | 856,394 | 23% | 98,547 | 17% |
| Approaches at | 1991 | 2,021,138 | 9% | 740,355 | 8% | 499,869 | 9% | 696,581 | 8% | 84,333 | 16% |
| Control | 1990 | 1,863,106 | -14% | 688,772 | -20% | 458,004 | -3% | 643,345 | -11% | 72,985 | -37% |
| Facilities 1 | 1989 | 2,171,464 | 32% | 858,637 | 36% | 474,600 | 32% | 722,910 | 30% | 115,317 | 17% |
| | 1988 | 1,644,854 | -14% | 629,719 | -20% | 358,630 | -9% | 557,759 | -9% | 98,746 | -6% |

TABLE 2.14 AIR TRAFFIC ACTIVITY AT FLIGHT SERVICE FACILITIES CALENDAR YEARS 1988-1992

| | | Flight Sen | vices 1 | | | Flight Plans | Originated | | | Airport Ad | visories | Pilot Br | iefs |
|----------------|------|------------|------------------|-----------|------------------|--------------|------------------|-----------|------------------|------------|------------------|------------|------------------|
| | Year | Total | Annual Change | Total | Annual Change | IFR-DVFR | Annual Change | VFR | Annuai Change | Total | Annual Change | Total | Annual Change |
| Flight Service | 1992 | 39,430,634 | -3% | 6,400,202 | -2% | 4,824,601 | -2% | 1,575,601 | -4% | 1,265,832 | -2% | 10,604,514 | -3% |
| Stations & | 1991 | 40,691,408 | -7% | 6,542,483 | -8% | 4,901,883 | -8% | 1,640,600 | -8% | 1,293,076 | -16% | 10,965,209 | -5% |
| Autometed | 1990 | 43,696,478 | 5% | 7,125,915 | -7% | 5,341,443 | -9% | 1.784,472 | -1% | 1,546,810 | -7% | 11,602,109 | -5% |
| Flight Service | 1989 | 48,211,404 | ļ . | 7,860,484 | -2% | 5,861,441 | -2% | 1,799,043 | -4% | 1,666,269 | -11% | 12,227,038 | 3% |
| Stations | 1988 | 46,019,119 | 4% | 7,851,587 | -1% | 5,984,825 | -1% | 1,866,762 | -1% | 1,870,995 | -19% | 11,844,172 | -6% |
| Flight Service | 1992 | 7,073,294 | -12% | 980,500 | -13% | 618,078 | -15% | 362,422 | -9% | 1,132,522 | -1% | 1,497,238 | -16% |
| Stations | 1991 | 8,076,751 | -38% | 1,128,013 | -41% | 729,313 | -41% | 396,700 | -40% | 1,148,921 | -18% | 1.787.447 | -41% |
| | 1990 | 12,974,279 | -26% | 1.902.848 | -29% | 1,241,564 | -35% | 661,284 | -15% | 1,396,230 | -10% | 3.051,713 | -30% |
| | 1989 | 17,612,149 | -18% | 2,681,048 | -21% | 1,899,287 | -23% | 781,761 | -16% | 1,544,788 | -13% | 4,337,302 | -19% |
| | 1988 | 21,550,269 | -28% | 3,391,173 | -27% | 2,461,373 | -28% | 929,800 | -21% | 1,772,066 | -22% | 5,327,630 | -31% |
| Automated | 1992 | 32,357,340 | -1% | 5,419,702 | ļ +• i | 4,206,523 | 1% | 1,213,179 | -2% | 133,310 | -8% | 9,107,276 | -1% |
| Flight Service | 1991 | 32,614,657 | 6% | 5,414,470 | 4% | 4,172,570 | 2% | 1,241,900 | 11% | 144,155 | -4% | 9,177,762 | 7% |
| Stations | 1990 | 30,722,199 | 7% | 5,223,067 | 5% | 4,099,879 | 3% | 1,123,188 | 10% | 150,580 | 24% | 8.550.396 | 3% |
| | 1989 | 28,599,255 | 17% | 4,979,436 | 12% | 3,962,154 | 12% | 1,017,282 | 9% | 121,481 | 23% | 7,889,736 | 21% |
| | 1968 | 24,468,850 | 35% | 4,460,414 | 35% | 3,523,452 | 36% | 936,962 | 33% | 98,929 | 91% | 6.516.542 | 34% |

The sum of flight plans originated and pilot briefs, multiplied by two, plus the number of aircraft contacted (see Table 2.15). No credit is allowed for airport advisories.

^{*}Less than 0.5 percent.

¹ Excludes instrument approaches provided by Air Route Traffic Control Centers.

TABLE 2.15 AIRCRAFT CONTACTED AT FLIGHT SERVICE FACILITIES, BY AVIATION CATEGORY CALENDAR YEARS 1988–1992

| | | | | | | Aircraft Co | ntacted | | | | |
|----------------|------|-----------|------------------|---------|------------------|-------------|------------------|-----------|------------------|---------|------------------|
| | Year | Tota | ai | Air Ca | rrier | Air T | axi | General A | viation | Milita | ry |
| | | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change | Total | Annual Change |
| Flight Service | 1992 | 5,421,202 | -4% | 197,681 | -7% | 782,962 | -3% | 4,067,751 | -5% | 372,808 | 49 |
| Stations & | 1991 | 5,676,024 | -9% | 212,396 | -15% | 809,282 | -4% | 4,297,100 | -9% | 357,246 | -169 |
| Automated | 1990 | 6,240,430 | -3% | 249,076 | -4% | 845,738 | -6% | 4,718,219 | -3% | 427,397 | -29 |
| Flight Service | 1989 | 6,436,360 | -3% | 260,602 | -6% | 899,292 |] -7%] | 4,840,370 | -2% | 436,096 | 49 |
| Stations | 1988 | 6,627,601 | -7% | 278,690 | -21% | 965,234 | -6% | 4,963,352 | -6% | 420,325 | -9% |
| IFR-DVFR | 1992 | 1,664,791 | -2% | 190,070 | -7% | 391,521 | ∫ +•{ | 940,617 | -1% | 142,583 | -59 |
| | 1991 | 1,699,378 | -7% | 204,464 | -15% | 391,268 | -6% | 953,058 | -5% | 150,588 | -99 |
| | 1990 | 1,821,572 | -6% | 240,495 | -3% | 415,896 | -1% | 1,000,296 | -9% | 164,885 | -39 |
| | 1989 | 1,937,844 | 3% | 247,045 | -9% | 419,796 | l -•1 | 1,100,250 | 7% | 170,753 | 9% |
| | 1988 | 1,879,163 | -6% | 270,894 | -18% | 421,332 | -• | 1,030,019 | -5% | 156,918 | -3% |
| VFR | 1992 | 3,756,411 | -6% | 7,611 | -4% | 391,441 | -6% | 3,127,134 | -6% | 230,225 | 11% |
| | 1991 | 3,976,646 | -10% | 7,932 | -8% | 418,014 | -3% | 3,344,042 | -10% | 206,658 | -21% |
| | 1990 | 4,418,858 | -2% | 8,581 | -37% | 429,842 | -10% | 3,717,923 | -1% | 262,512 | -1% |
| | 1989 | 4,498,516 | -5% | 13,557 | 74% | 479,496 | -12% | 3,740,120 | -5% | 265,343 | 1% |
| | 1988 | 4,748,438 | -7% | 7,796 | -64% | 543,902 | -9% | 3,933,333 | -6% | 263,407 | -13% |
| Flight | 1992 | 2,117,818 | -6% | 90,916 | -2% | 472,539 | -4% | 1,422,188 | -7% | 132,175 | . ' |
| Service | 1991 | 2,245,831 | -27% | 92,562 | -21% | 493,152 | -20% | 1,527,487 | -28% | 132,630 | -33% |
| Stations | 1990 | 3,065,157 | -14% | 117,062 | -8% | 619,263 | -10% | 2,132,187 | -16% | 196,645 | -14% |
| | 1989 | 3,575,449 | -13% | 127,538 | -8% | 691,285 | -11% | 2,528,557 | -14% | 228,069 | -7% |
| | 1988 | 4,112,663 | -22% | 138,912 | -40% | 773,241 | -12% | 2,954,140 | -23% | 246,370 | -28% |
| IFR-DVFR | 1992 | 559,367 | -5% | 83,974 | -1% | 210,610 | +* | 220,921 | -10% | 43,862 | -9% |
| | 1991 | 588,243 | -24% | 85,199 | -22% | 210,071 | -20% | 244,546 | -26% | 48,427 | -31% |
| | 1990 | 773,288 | -19% | 108,924 | 8% | 263,335 | -9% | 331,305 | -28% | 69,724 | -19% |
| | 1989 | 953,344 | -10% | 118,859 | -10% | 288,589 | -10 | 459,502 | -12% | 86,394 | } -' |
| | 1988 | 1,061,062 | -24% | 131,579 | -37% | 320,304 | -9% | 522,493 | -28% | 86,686 | -22% |
| VFR | 1992 | 1,558,451 | -6% | 6,942 | -6% | 261,929 | -7% | 1,201,267 | -6% | 88,313 | 5% |
| | 1991 | 1,657,588 | -28% | 7,363 | -10% | 283,081 | -20% | 1,282,941 | -29% | 84,203 | -34% |
| | 1990 | 2,291,869 | -13% | 8,138 | -6% | 355,928 | -12% | 1,800,882 | -13% | 126,921 | -10% |
| | 1989 | 2,622,105 | -14% | 8,679 | 18% | 402,696 | -11% | 2,069,055 | -15% | 141,675 | -11% |
| | 1988 | 3,051,601 | -22% | 7,333 | -64% | 452,937 | -14% | 2,431,647 | -22% | 159,684 | -31% |
| Automated | 1992 | 3,303,384 | -4% | 106,765 | -11% | 310,423 | -2% | 2,645,563 | -4% | 240,633 | 7% |
| Flight Service | 1991 | 3,430,193 | 8% | 119,834 | -9% | 316,130 | 40% | 2,769,613 | 7% | 224,616 | -3% |
| Stations | 1990 | 3,175,273 | 11% | 132,014 | -1% | 226,475 | 9% | 2,586,032 | 12% | 230,752 | 11% |
| | 1989 | 2,860,911 | 14% | 133,064 | -5% | 208,007 | 8% | 2,311,813 | 15% | 208,027 | 20% |
| | 1988 | 2,514,938 | 37% | 139,778 | 13% | 191,993 | 34% | 2,009,212 | 38% | 173,955 | 44% |
| IFR-DVFR | 1992 | 1,105,424 | -1% | 106,096 | -11% | 180,911 | -• | 719,696 | 2% | 98,721 | -3% |
| | 1991 | 1,111,135 | 6% | 119,265 | -9% | 181,197 | 19% | 708,512 | 6% | 102,161 | 7% |
| | 1990 | 1,048,284 | 6% | 131,571 | 3% | 152,561 | 16% | 668,991 | 4% | 95,161 | 13% |
| | 1969 | 984,500 | 20% | 128,186 | -8% | 131,207 | 30% | 640,748 | 26% | 84,359 | 20% |
| | 1968 | 818,101 | 36% | 139,315 | 14% | 101,028 | 42% | 507,526 | 42% | 70,232 | 41% |
| VFR | 1992 | 2,197,960 | -5% | 669 | 18% | 129,512 | -4% | 1,925,867 | -7% | 141,912 | 16% |
| | 1991 | 2,319,058 | 9% | 569 | 28% | 134,933 | 83% | 2,061,101 | 8% | 122,455 | -10% |
| | 1990 | 2,126,989 | 13% | 443 | -91% | 73,914 | -4% | 1,917,041 | 15% | 135,591 | 10% |
| | 1989 | 1,876,411 | 11% | 4,878 | 954% | 76,800 | -16% | 1,671,065 | 11% | 123,668 | 19% |
| | 1988 | 1,696,837 | 37% | 463 | -54% | 90,965 | 27% | 1,501,686 | 37% | 103,723 | 46% |

^{*}Less than 0.5

TABLE 2.16
TOP 50 FAA-OPERATED AIRPORT TRAFFIC CONTROL TOWERS,
BY RANK ORDER OF TOTAL OPERATIONS
AND BY AVIATION CATEGORY INCLUDING AIR CARRIER RANK
CALENDAR YEAR 1992

| Tower | Rank | Total Operations | Rank | Air Carrier | Air Taxi | General Aviation | Military |
|-------------------------------|----------|---------------------|----------|--------------------|---------------------|--------------------------------------|--------------|
| Chicago O'Hare Int'i, il | 1 | 845,211 | 1 | 620,992 | 181,906 | 39,111 | 3,202 |
| Dallas Ft. Worth Regional, TX | 2 | 764,295 | 2 | 572.862 | 175.021 | 15,425 | 987 |
| Los Angeles Int'i, CA | 3 | 680,489 | 4 | 409,122 | 191,315 | 66,179 | 13,873 |
| Atlanta Int'i, GA | 4 | 621,640 | 3 | 447,095 | 149.005 | 21,152 | 4.388 |
| Santa Ana/Orange Co. , CA | 5 | 548,710 | 56 | 61,936 | 28,667 | 457,363 | 744 |
| Van Nuys, CA | 6 | 520,468 | NA | ٥ | 661 | 519.313 | 494 |
| | • | | | · • • • | | | |
| Denver Stapleton Int'l, CO | 7 | 512,497 | .5 | 323,007 | 155,084 | 32,953 | 1,453 |
| Miami Int'i, FL | 8 | 496822 | 11 | 281,535 | 124,020 | 80,934 | 10,333 |
| Phoenix Sky Harbor Int'l, AZ | 9 | 492,739 | 6 | 298,734 | 77,088 | 106,008 | 10,909 |
| Boston Logan, MA | 10 | 486,785 | 16 | 243,235 | 212,002 | 30,779 | 769 |
| Charlotte Douglas, NC | 11 | 461,944 | 13 | 258,216 | 133,189 | 65,317 | 5,222 |
| Long Beach, CA | 12 | 436,114 | 106 | 15,318 | 3,328 | 415,324 | 2.144 |
| Pittsburgh Greater Int'l, PA | 13 | 430,195 | 10 | 285.045 | 119,875 | 19,968 | 5,307 |
| St. Louis Int'l, MO | 14 | 427.755 | 12 | 273,069 | 109,268 | 36,573 | 8.845 |
| Detroit Metro Wayne, MI | 15 | 427,383 | 9 | 285,373 | 87,995 | 51,897 | 2,118 |
| · | - | | - | · | , , | | • |
| San Francisco, CA | 16 | 423,437 | 7 | 296,169 | 93,335 | 31,497 | 2,436 |
| Minneapolis St Paul Int'l, MN | 17 | 418,486 | 15 | 250,829 | 88,471 | 76,237 | 2,949 |
| Oakland Int'l, CA | 18 | 414,442 | 37 | 108.625 | 52.277 | 252.797 | 743 |
| Newark, NJ | 19 | 412,352 | 8 | 286,349 | 104,569 | 20,932 | 502 |
| Las Vegas McCarran Int'l, NV | 20 | 411,600 | 22 | 199,591 | 96,908 | 106,475 | 8,626 |
| Seattle Boeing, WA | 21 | 409,069 | 157 | 5,713 | 28,389 | 370,693 | 4,274 |
| | 22 | | | | | | |
| Honoiulu, HI | | 403,708 | 21 | 202,559 | 58,782 | 113,623 | 28,744 |
| Philadelphia Int'l, PA | 23 | 383,262 | 18 | 210,707 | 120,673 | 45,704 | 6,178 |
| Denver Centennial, CO | 24 | 376,417 | NA | 0 | 5,600 | 361,385 | 9,432 |
| Pontiac, MI | 25 | 357,569 | 226 | 197 | 12,273 | 344,426 | 673 |
| Memphis Int'l, TN | 26 | 346,180 | 25 | 168,617 | 112,227 | 59,741 | 5,595 |
| Seattle-Tacoma, WA | 27 | 345,995 | 23 | 196,141 | 140,744 | 8,800 | 310 |
| John F. Kennedy Intil, NY | 28 | 341,200 | 19 | 210,593 | 114,693 | 15,489 | 425 |
| La Guardia, NY | 29 | 335.898 | 14 | 253,219 | 65,875 | 16,457 | 347 |
| San Jose Int'i, CA | 30 | 334,638 | 40 | 93,456 | 54,084 | 185,927 | 1,171 |
| Houston Intercontinental, TX | 31 | 326,886 | 17 | 224.810 | 58,359 | 42.027 | 1,690 |
| Salt Lake City Int'i, UT | 32 | 320,418 | 26 | 162,095 | 68,410 | 84,684 | 5,229 |
| | 33 | | 220 | 386 | | | |
| Fort Worth Meacham, TX | | 315,512 | | | 871 | 313,518 | 737 |
| Washington National, DC | 34 35 | 309,753 306,746 | 24 28 | 183,576 132,787 | 71,103 107,347 | 54,452 60,280 | 622 6,332 |
| ' ' ' I | | | | | | 1 | |
| Cincinnati Greater, KY | 36 | 305,544 | 27 | 153,113 } | 139,449 | 11,764 | 1,218 |
| Orlando Int'i, FL | 37 | 305197 | 20 | 206,274 | 70,919 | 22,867 | 5137 |
| Prescott, AZ | 38 | 295,049 | N/A | l oi | 9691 | 284,859 | 499 |
| Raieigh Durham, NC | 39 | 292,942 | 35 | 119,533 | 95.126 | 69.357 | 8,926 |
| Washington Dulles Int'l, VA | 40 | 288244 | 38 | 104,704 | 121,262 | 54,269 | 8,009 |
| Concord, CA | 41 | 286,319 | NA | اه | 122 | 285.388 | 809 |
| | | | | | | | |
| Daytona Beach, FL. | 42 | 282,896 | 116 | 13,149 | 7,680 | 261,076 | 991 |
| Portland Int'l, OR | 43 | 270,423 | 44 | 89,368 | 107,119 | 60,719 | 13,217 |
| Baltimore Washinton Int'l. MD | 44 | 264,165 | 31 | 122,524 | 89,526 | 48,261 | 3,854 |
| Tamiami, FL | 45 | 256,415 | N/A | 0 | 603 | 248,122 | 7,690 |
| Tulsa Riverside, OK | 46 | 256,070 | N/A | 0 | 14 | 256,051 | 5 |
| Indianapolis, IN | 47 | 252,580 | 32 | 121,320 | 79,184 | 50,437 | 1,639 |
| Livermore , CA | 48 | 252,370 | N/A | 0 | 283 | 250,952 | 1,135 |
| La Verne Brackett, CA | 49 | 247,973 | N/A | اة | 1,469 | 246,225 | 279 |
| Sanford, FL | 50 | 244,572 | 253 | 44 | 92 | 244,113 | 323 |
| | - | | 200 | 77) | 92 } | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |

NOTE: Total Operations rank was based on total air traffic activity at 400 FAA-Operated Towers. Air Carrier operations rank was based on air carrier activity at 298 FAA-Operated Towers. Not all FAA-Operated Towers handle air carrier operations.

TABLE 2.17 TOP 50 FAA-OPERATED AIRPORT TRAFFIC CONTROL TOWERS, BY RANK ORDER OF AIR CARRIER OPERATIONS AND BY AVIATION CATEGORY INCLUDING TOTAL OPERATIONS RANK CALENDAR YEAR 1992

| Tower | Rank | Air Carrier | Air Taxi | General Aviation | Military | Rank | Total Operations |
|-------------------------------|------|-------------|----------|---------------------|----------|------|---------------------|
| Chicago O'Hare Int'l, IL | 1 | 620,992 | 181,906 | 39,111 | 3,202 | 1 | 845,211 |
| Dallas Ft. Worth Regional, TX | 2 | 572,862 | 175,021 | 15,425 | 987 | 2 | 764,295 |
| Atlanta Int'l, GA | 3 | 447,095 | 149,005 | 21,152 | 4,388 | 4 | 621,640 |
| Los Angeles Int'i, CA | 4 | 409,122 | 191,315 | 66,179 | 13,873 | 3 : | 680,489 |
| Denver Stapleton Int'l, CO | 5 | 323,007 | 155,084 | 32,953 | 1,453 | 7 | 512,497 |
| Phoenix Sky Harbor Int'l, AZ | 6 | 298,734 | 77,088 | 106,008 | 10,909 | 9 | 492,739 |
| San Francisco, CA | 7 | 296,169 | 93,335 | 31,497 | 2,436 | 16 | 423,437 |
| Newark, NJ | 8 | 286,349 | 104,569 | 20,932 | 502 | 19 | 412,352 |
| Detroit Metro Wayne, MI | 9 | 285,373 | 87,995 | 51,897 | 2,118 | 15 | 427,383 |
| Pittsburgh Greater Int'i, PA | 10 | 285,045 | 119,875 | 19,968 | 5,307 | 13 | 430,195 |
| Miami Int'l, FL | 11 | 281,535 | 124,020 | 80,934 | 10,333 | 8 | 496,822 |
| St. Louis Int'i, MO | 12 | 273,069 | 109,268 | 36,573 | 8,845 | 14 | 427,755 |
| Charlotte Douglas, NC | 13 | 258,216 | 133,189 | 65,317 | 5,222 | 11 | 461,944 |
| La Guardia, NY | 14 | 253,219 | 65,875 | 16,457 | 347 | 29 | 335,898 |
| Minneapolis St Paul Int'l, MN | 15 | 250,829 | 88,471 | 76,237 | 2,949 | 17 | 418,486 |
| Boston Logan, MA | 16 | 243,235 | 212,002 | 30,779 | 769 | 10 | 486,785 |
| Houston Intercontinental, TX | 17 | 224,810 | 58,359 | 42,027 | 1,690 | 31 | 326,886 |
| Philadelphia Int'l, PA | 18 | 210,707 | 120,673 | 45,704 | 6,178 | 23 | 383,262 |
| John F. Kennedy Int'i, NY | 19 | 210,593 | 114,693 | 15,489 | 425 | 28 | 341,200 |
| Orlando Int'i, FL | 20 | 206,274 | 70,919 | 22,867 | 5137 | 37 | 305,197 |
| Honolulu, HI | 21 | 202,559 | 58,782 | 113,623 | 28,744 | 22 | 403,708 |
| Las Vegas McCarran Int'i, NV | 22 | 199,591 | 96,908 | 106,475 | 8,626 | 20 | 411,600 |
| Seattle-Tacoma, WA | 23 | 196,141 | 140,744 | 8,800 | 310 | 27 | 345,995 |
| Washington National, DC | 24 | 183,576 | 71,103 | 54,452 | 622 | 34 | 309,753 |
| Memphis Int'l, TN | 25 | 168,617 | 112,227 | 59,741 | 5,595 | 26 | 346,180 |
| Salt Lake City Int'l, UT | 26 | 162,095 | 68,410 | 84,684 | 5,229 | 32 | 320,418 |
| Cincinnati Greater, KY | 27 | 153,113 | 139,449 | 11,764 | 1,218 | 36 | 305,544 |
| Nashville Metropolitan, TN | 28 | 132,787 | 107,347 | 60,280 | 6,332 | 35 | 306,746 |
| San Diego Lindberg, CA | 29 | 131,853 | 54,273 | 22,378 | 5,479 | 72 | 213,983 |
| Cleveland Hopkins, OH | 30 | 123,250 | 85,077 | 31,737 | 3,198 | 51 | 243,262 |
| Baltimore, MD | 31 | 122,524 | 89,526 | 48,261 | 3,854 | 44 | 264,165 |
| Indianapolis Int'l, IN | 32 | 121,320 | 79,184 | 50,437 | 1,639 | 47 | 252,580 |
| Houston Hobby, TX | 33 | 121,292 | 9,841 | 108,403 | 1,371 | 53 | 240,907 |
| Tampa Int'l, FL | 34 | 119,569 | 61,561 | 48,289 | 2,389 | 59 | 231,808 |
| Raleigh Durham, NC | 35 | 119,533 | 95,126 | 69,357 | 8,926 | 39 | 292,942 |
| Kansas City Int'l, MO | 36 | 109,798 | 50,313 | 15,600 | 1,805 | 117 | 177,516 |
| Oakland International, CA | 37 | 108,625 | 52,277 | 252,797 | 743 | 18 | 414,442 |
| Washington Dulles Int'l, VA | 38 | 104,704 | 121,262 | 54,269 | 8,009 | 40 | 288,244 |
| Anchorage, AK | 39 | 97,775 | 80,611 | 50,170 | 3,662 | 58 | 232,218 |
| San Jose Int'i, CA | 40 | 93,456 | 54,084 | 185,927 | 1,171 | 30 | 334,638 |
| Ontario, CA | 41 | 91,482 | 31,027 | 28,873 | 454 | 151 | 151,836 |
| Dallas Love Field, TX | 42 | 89,807 | 25,449 | 96,884 | 1,387 | 73 | 213,527 |
| New Orleans Moisant, LA | 43 | 89,628 | 24,096 | 22,483 | 1,367 | 178 | 137,574 |
| Portland Int'l, CR | 44 | 89,368 | 107,119 | 60,719 | 13,217 | 43 | 270,423 |
| Fort Lauderdale, FL | 45 | 82,920 | 46,052 | 78,613 | 1,480 | 77 | 209,065 |
| Louisville Standiford, KY | 46 | 80,864 | 28,947 | 37,224 | 6,265 | 149 | 153,300 |
| Port Cloumbus, OH | 47 | 79,850 | 54,826 | 92,089 | 3,890 | 60 | 230,655 |
| San Antonio Int'l, TX | 48 | 76,869 | 26,184 | 105,105 | 6,233 | 71 | 214,391 |
| Milwaukee Mitchell, WI | 49 | 74,941 | 55,860 | 65,237 | 6,992 | 81 | 203,030 |
| San Juan, PR | 50 | 73,023 | 88,628 | 34,452 | 5,874 | 83 | 201,977 |

NOTE: Total Operations rank was based on total air traffic activity at 400 FAA-Operated Towers. Air Carrier operations rank was based on air carrier activity at 298 FAA-Operated Towers. Not all FAA-Operated Towers handle air carrier operations.

TABLE 2.18

TOTAL FAA AIR TRAFFIC ACTIVITY BY REGION AND STATE,
AND BY FAA-OPERATED TOWERS, AIR ROUTE TRAFFIC CONTROL CENTERS,
FLIGHT SERVICE STATIONS AND INTERNATIONAL FLIGHT SERVICE STATIONS
CALENDAR YEAR 1992

| FAA Region and State | Airport Operations (Towers) | Aircraft Handled (Centers) | Aircraft Contacted (Flight Service Stations) * | Total Flight Services (Flight Service Station) * |
|----------------------|--------------------------------|-------------------------------|--|---|
| TAL | 61,342,974 | 36,951,044 | 5,421,202 | 39,430,6 |
| Alaskan—Total | 1,091,135 | 510,870 | 900,652 | 2,031,2 |
| Central—Total | 2,336,899 | 1,767,232 | 281,865 | 2,766,3 |
| lowa | 415,646 | _ | 46,349 | 508,10 |
| Kansas | | _ | 55,063 | 534,80 |
| Missouri | | 1,767,232 | 128,082 | 1,367,0 |
| Nebraska | | _ | 52,371 | 356,35 |
| Eastern—Total | 8,060,137 | 4,204,964 | 421,437 | 4,865,3 |
| Delaware | 170,200 | - | -1 | • |
| District of Columbia | 309,753 | 2,221,164 | 79,992 | 892,53 |
| Maryland | 472,197 | | 56,137 | 104,50 |
| New Jersey | 1,310,774 | _ | 51,391 | 654,20 |
| New York | 2,429,282 | 1,983,800 | 64,328 | 1,034,0 |
| Pennsylvania | 1,882,598 | - | 89,737 | 1,637,0 |
| Virginia | 1,116,074 | | 11,136 | 158,0 |
| West Virginia | 369,259 | | 68,716 | 384,70 |
| Great Lakes—Total | 9,248,508 | 8,724,492 | 606,999 | 6,252,4 |
| Illinois | 2,542,409 | 2,580,490 | 62,606 | 933,1 |
| Indiana | 817,722 | 1,914,529 | 67,569 | 809,6 |
| Michigan | | | 63,224 | 1,018,7 |
| Minnesota | | 1,806,245 | 113,252 | 793,7 |
| North Dakota | | | 42.868 | 430,3 |
| Ohio | , | 2,423,228 | 70.374 | 1,186.3 |
| South Dakota | 1 ., | | 101,887 | 385.9 |
| Wisconsin | 866,728 | _ | 85,219 | 694,5 |
| New England—Total | | 1,606,136 | 127,564 | 1,713,8 |
| Connecticut | | .,000,100 | 60,982 | 906.0 |
| Maine | | | 30,723 | 381,7 |
| Massachusetts | , | 1,606,136 | 50,725 | 507,7 |
| New Hampshire | | 1,000,100 | <u> </u> | |
| Rhode Island | | | | |
| | | | 25 950 | 400.0 |
| Vermont | | 4 004 620 | 35,859 | 426,0 |
| | | 4,084,639 | 728,826 | 3,522,4 |
| Colorado | | 1,400,372 | 128,546 | 778,2 |
| Mantana | | | 43,068 | 226,9 |
| Montana | | - | 134,726 | 390,9 |
| Oregon | | 4 070 070 | 107,002 | 529,8 |
| Utah | | 1,379,276 | 65,182 | 313,3 |
| Washington | | 1,304,991 | 178,838 | 1,020,3 |
| Wyoming | | 7 505 740 | 71,464 | 262,7 |
| Southern—Total | , | 7,565,716 | 1,082,110 | 9,041,3 |
| Alabama | | | 100,532 | 780,8 |
| Florida | | 3,456,418 | 397,860 | 3,200,9 |
| Georgia | 1 | 2,231,434 | 92,083 | 1,199,4 |
| Kentucky | , | | 89,592 | 519,6 |
| Mississippi | | - | 39,018 | 377,1 |
| North Carolina | 1 , ,, | | 136,244 | 1,105,8 |
| Puerto Rico | * | _ | 66,504 | 245,1 |
| South Carolina | , | | 49,270 | 632,9 |
| Tennessee | 964,357 | 1,877,864 | 111,007 | 979,2 |
| Virgin Islands | 178,357 | | - | |
| SouthwestTotal | 6,789,481 | 5,023,926 | 566,007 | 4,667,1 |
| Arkansas | 346,428 | - | 60,080 | 482,4 |
| Louisiana | 973,477 | - | 32,148 | 492,9 |
| New Mexico | 407,757 | 1,363,834 | 137,696 | 551,7 |
| Oklahoma | 782,096 | _ | 78,220 | 639,3 |
| Texas | 4,279,723 | 3,660,092 | 257,863 | 2,500,6 |
| Western-PacificTotal | 13,913,190 | 3,463,069 | 705,742 | 4,570,3 |
| American Samoa | 11,280 | · · · — I | -1 | • |
| Arizona | 2,001,706 | _ [| 121,281 | 654,7 |
| California | | 3,363,422 | 494,752 | 3,309,0 |
| Guam | _ | 99,647 | | , - |
| Hawaii | 876,974 | | 36,905 | 213,6 |
| Nevada | 718,308 | _ | 52,804 | 392.8 |
| | | | , | |

^{*}Includes domestic and international Flight Service Stations

III. AIRPORTS

Information about U.S. civil and joint-use landing facilities (including airports, heliports, stolports, and seaplane bases) was furnished by the FAA Office of Airport Safety and Standards. This information was obtained through physical inspection and mail solicitations, and was reported on the Airport Master Record (Form FAA 5010-1) and FAA Landing Facilities Information Request on Airports, Heliports, Stolports, and Seaplane Bases (Forms 5010-2 and 5010-5).

2929.FMT 04/29/93

TABLE 3.1 U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES, ON RECORD: 1983-1992

| Year | | All Facilities 1 | | Airports Only | | | | | |
|------|--------|--------------------------|-----------------------|---------------|--------------------------|----------------------|------------------------|--|--|
| | Total | With Runway Lights | With Paved Runways | Total | With Runway Lights | With Paved Runway | Airports of Entry 2 | | |
| 1983 | 16,029 | 4,878 | 6,441 | 12,653 | 4,513 | 4,431 | 59 | | |
| 1984 | 16,079 | 4,889 | 6,531 | 12,648 | 4,536 | 4,450 | 59 | | |
| 1985 | 16,318 | 4,941 | 6,721 | 12,744 | 4,582 | 4,486 | 57 | | |
| 1986 | 16,582 | 4,954 | 6,948 | 12,785 | 4,601 | 4,499 | 76 | | |
| 1987 | 17,015 | 4,922 | 7,232 | 12,907 | 4,610 | 4,526 | 80 | | |
| 1988 | 17,327 | 4,890 | 7,429 | 12,950 | 4,630 | 4,554 | 80 | | |
| 1989 | 17,446 | 4,881 | 7,612 | 12,946 | 4,657 | 4,600 | 84 | | |
| 1990 | 17,490 | 4,822 | 7,694 | 12,920 | 4,652 | 4,611 | 81 | | |
| 1991 | 17,581 | 4,811 | 7,822 | 12,904 | 4,665 | 4,634 | 81 | | |
| 1992 | 17,846 | 4,831 | 7,936 | 13,016 | 4,695 | 4,654 | 81 | | |

¹ All facilities include airports, heliports, stolports and seaplane bases.
2 Excludes landing rights airports.

TABLE 3.2 U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES, AND REPORTED ABANDONMENTS ON RECORD, BY FAA REGION AND STATE **DECEMBER 31, 1992**

| FAA Region and State | Total Aircraft Facilities | Airports | Heliports | Stolports | Seaplane Bases | Reported Abandon- ments During Yea | |
|--------------------------|---------------------------------|----------|-----------|-----------|-------------------|---|--|
| | 17,846 | 13,016 | 4,323 | 74 | 433 | 2 | |
| United States—Total 1 | 17,769 | 12,968 | 4,296 | 74 | 429 | 2 | |
| Alaska—Total | 559 | 436 | 20 | 0 | 103 | | |
| Central—Total | 1,443 | 1,215 | 219 | 3 | 6 | 4 | |
| lowa | 293 | 225 | 67 (| 1 1 | 0 | | |
| Kansas | 382 | 353 | 28 | 1 | 0 | | |
| Missouri | 473 | 364 | 103) | 1 | 5 | | |
| Nebraska | 295 | 273 | 21 | 0 | 1 | | |
| Eastern—Total | 2,296 | 1,419 | 810 | 8 | 59 | ļ | |
| Delaware | 36 | 23 | 12 | 0 1 | 1 | | |
| District | 16 | 2 | 14 | 0 | 0 | | |
| Maryland | 187 | 138 | 46 | 1 | 2 | i | |
| New Jersey | 334 | 112 | 212 | ol | 10 | | |
| New York | 520 | 368 | 127 | ŏ | 25 | | |
| Pennsylvania | 757 | 473 | 273 | š | 8 | | |
| Virginia | 345 | 242 | 97 | 3 | 3 | | |
| | 101 | 61 | 29 | 1 | 10 | | |
| West Virginia | - 1 | 3,392 | 704 | او | 100 | i | |
| Great Lakes—Total | 4,205 | | | 0 | | | |
| Illinois | 917 | 676 | 234 | - | 7 ' | | |
| indiana | 576 | 470 | 100 | 1 | 5 | | |
| Michigan | 435 | 367 | 63 | 2 | 3 | | |
| Minnesota | 483 | 376 | 35 | 1 | 71 | | |
| No. Dakota | 450 | 442 [| 7 (| 0 (| 1 | | |
| Ohio | 716 | 521 | 191 | 4 | 0 | | |
| So. Dakota | 157 | 147 | 9) | 1) | 0 | | |
| Wisconsin | 471 | 393 | 65 | 0 | 13 | | |
| New England—Total | 669 | 341 | 257 | 5 | 66 | | |
| Connecticut | 131 | 55 | 69 | 1 | 6 | i | |
| Maine | 156 | 104 | 15 | 0 | 37 | | |
| Massachusetts | 205 | 77 | 111 | 1 | 16 | | |
| New Hampshire | 84 | 45 | 34 | i | 4 | | |
| Rhode Island | 22 | 10 | 11 | ö | 1 | | |
| | 71 | 50 | 17 | 2 | 2 | | |
| Vermont | | | | اؤ | | | |
| Northwest Mountain—Total | 1,868 | 1,390 | 447 | | 22 | | |
| Colorado | 395 | 216 | 175 | 4 | 0 | | |
| idaho | 212 | 182 | 26 (| o l | 4 | ļ | |
| Montana | 234 | 213 | 19 | 1 | 1 | i | |
| Oregon | 387 | 299 | 84 | 2 | 2 | | |
| Utah | 118 [| 85 | 33 | 0 | 0 | | |
| Washington | 423 | 310 | 96 | 2 | 15 | i | |
| Wyoming | 99 | 85 (| 14 | 0 | 0 | | |
| Southern—Total | 2,459 | 1,803 | 591 | 27 | 38 | | |
| Alabama | 208 | 162 | 44 | 0 | 2 | | |
| Florida | 732 | 468 | 227 | 9 | 28 | | |
| Georgia | 382 | 287 | 91 | 4 | Ō | | |
| Kentucky | 153 | 119 | 33 | 1 | ŏ | | |
| Mississippi | 216 | 177 | 39 | اهٔ | ŏ | | |
| No. Carolina | 344 | 284 | 55 | Ā | 1 | | |
| Puerto Rico | 33 | 17 | 15 | 7 | 1 | | |
| | | | 21 | 81 | Ö | | |
| So. Carolina | 153 | 132 | 82 | , i | Ü | | |
| Tennessee | | 155 | ٠- ا | 9 | 3 | | |
| Vrigin Islands | 9 | 2 | 4 | 0 | 3 | | |
| Southwest—Total | 2,953 | 2,135 | 783 | 8 | 27 | | |
| Arkansas | 243 | 173 | 70 (| 0 (| 0 | | |
| Louisiana | 426 | 196 | 205 | 0 | 25 | | |
| New Mexico | 170 | 150 | 19 | 0 | 1 | | |
| Oklahoma | 411 | 321 | 89 | 0 | 1 | | |
| Texas | 1,703 | 1,295 | 400 | 8 | 0 | | |
| Western-Pacific—Total | 1,394 | 885 | 492 | 5 | 12 | | |
| Arizona | 271 | 183 | 87 | ĭl | | | |
| California | 920 | 543 | 362 | ġ l | 12 | | |
| Hawaii | 47 | 32 | 15 | ől | اة ا | | |
| Nevada | 121 | 98 | 22 | 1 | ŏ | | |
| | | | | | | | |
| South Pacific 2 | 35 | 29 | 6 | 0 | 0 | | |

¹ Excludes Puerto, Virgin Islands, and South Pacific ² American Somoa, Guam, and Trust Territories.

TABLE 3.3 U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES, ON RECORD, BY TYPE OF OWNERSHIP **DECEMBER 31, 1992**

| FAA Region and State | Total | By Own | ership | Paved ! | acilities | Unpaved Facilities | | |
|--------------------------|------------|---------|--------|---------|-------------|--------------------|------------|--|
| | Facilities | Private | Public | Lighted | Not Lighted | Lighted | Not Lighte | |
| M | 17,846 | 12,243 | 4,572 | 3,955 | 3,981 | 876 | 9,0 | |
| U.S. Total 1 | 17,769 | 12,148 | 4,464 | 3,931 | 3,956 | 876 | 9,0 | |
| Alaska—Total | 559 | 171 | 388 | 44 | 17 | 103 | } 3 | |
| Central—Total | 1,443 | 949 | 494 | 403 | 222 | 106 | 7 | |
| lowa | 293 | 161 | 132 | 100 | 62 | 41 | l | |
| Kansas | 382 | 250 | 132 | 104 | 32 | 29 | ! : | |
| Missouri | 473 | 336 | 137 | 121 | 100 | 22 | 1 : | |
| Nebraska | 295 | 202 | 93 | 78 | 28 | 14 | | |
| Eastern—Total | 2,296 | 1,955 | 341 | 396 | 587 | 106 | | |
| Delaware | 36 | 32 | 4 | 7 | 7 | 5 | 1 | |
| District | 16 | اَوْ | 7 | , 4 | 11 | ŏ | l | |
| Maryland | 187 | 167 | 20 | 37 | 36 | 12 | ł | |
| | 334 | 291 | 43 | 39 | 106 | 11 | 1 | |
| New Jersey | | | | | 1 | | 1 | |
| New York | 520 | 432 | 88 | 95 | 115 | 40 |) | |
| Pennsylvania | 757 | 682 | 75 | 109 | 202 | 30 | • | |
| Virginia | 345 | 271 | 74 | 77 | 78 | . 9 |] | |
| West Virginia | 101 | 71 | 30 | 30 | 32 | 1 | [| |
| Greet Lakes-Total | 4,205 | 3,292 | 913 | 808 | 555 | 297 | 1 | |
| lilinois | 917 | 798 | 119 | 111 | 168 | 57 | i | |
| Indiana | 576 | 487 | 89 | 89 | 76 | 31 | } | |
| Michigan | 435 | 299 | 136 | 129 | 52 | 48 | Ì | |
| Minnesota | 483 | 334 | 149 | 105 | 35 | 36 | ł | |
| No. Dakota | 450 | 353 | 97 | 67 | 12 | 29 | 1 | |
| Ohio | 716 | 580 | 136 | 142 | 138 | 45 | { | |
| | 157 | 79 | 78 | 54 | 130 | 21 | l | |
| So. Dakota | | | | | | | ł | |
| Wisconsin | 471 | 362 | 109 | 111 | 65 | 30 | 1 | |
| New England—Total | 669 | 525 | 144 | 129 | 198 | 11 | 1 | |
| Connecticut | 131 | 115] | 16 j | 25 | 56 | 2 | Į. | |
| Maine | 156 | 109 | 47 | 30 | 19 | 3 | 1 | |
| Massachusetts | 205 | 170 | 35 | 40 | 76 | 3 | J | |
| New Hampshire | 84 | 67 | 17 | 17 | 31 | 2 | 1 | |
| Rhode Island | 22 | 13 | 9 | 7 | 9 | 0 | ļ | |
| Vermont | 71 | 51 | 20 | 10 | 7 | 1 | i | |
| Northwest Mountain—Total | 1.868 | 1,185 | 683 | 434 | 405 | 74 | ! | |
| Colorado | 395 | 303 | 92 | 68 | 103 | 14 | [| |
| Idaho | 212 | 82 | 130 | 45 | 32 | 2 | ĺ | |
| Montana | 234 | 109 | 125 | 73 | 26 | 18 | l | |
| Oregon | 387 | 285 | 102 | 62 | 95 | 14 | l | |
| Utah | 118 | 58 | 60 | 44 | 37 | 1 | ŀ | |
| | 423 | 297 | | | | 24 | 1 | |
| Washington | | | 126 | 108 | 96 | | l | |
| Wyoming | 99 | 51 | 48 | 34 | 16 | 3 | 1 | |
| Southern-Total | 2,459 | 1,631 | 828 | 684 | 571 | 92 | ł | |
| Alabama | 208 | 110 | 98 | 90 | 48 | 8 | 1 | |
| Florida | 732 [| 570 | 162 | 119 | 193 | 27 | ł | |
| Georgia | 382 | 248 | 134 j | 105 | 85 | 11 | [| |
| Kentucky | 153 | 82 | 71 | 55 | 43 | 4 | [| |
| Mississippi | 216 | 127 | 89 } | 73 | 48 | 7 |] | |
| No. Carolina | 344 | 250 | 94] | 92 | 59 | 21 | l | |
| So. Carolina | 153 | 85 | 68 | 57 | 21 | 8 | ļ | |
| Tennessee | 229 | 140 | 89 | 80 | 56 | 6 | 1 | |
| Puerto Rico | 33 | 16 | 17 | 11 | 17 | ŏ | ł | |
| Vrigin Islands | | | Ġ. | `. | i 'i₁ | ň | 1 | |
| Southwest—Total | 2,953 | 2,138 | 815 | 696 | 854 | 67 | ł | |
| Arkansas | 243 | | | | | | ĺ | |
| | | 131 | 112 | 82 | 81 | 5 | (| |
| Louisiana | 426 | 321 | 105 | 74 | 173 | 2 | 1 | |
| New Mexico | 170 | 94 | 76 (| 46 | 33 | .2 | [| |
| Oklahoma | 411 | 251 | 160 | 117 | 98 | 15 |] | |
| Texas | 1,703 | 1,341 | 362 | 377 | 469 | 43 | | |
| Western-Pacific—Total | 1,394 | 884 | 510 | 359 | 572 | 18 | | |
| Arizona | 271 | 182 | 89 | 69 | 84 | 3 | | |
| California | 920 | 607 | 313 | 235 | 428 | 11 | } | |
| Hawaii | 47 | 30 | 17 | 13 | 26 | 1 | 1 | |
| Nevada | 121 | 57 | 64 | 31 | 27 | ġ | 1 | |
| South Pacific 2 | 35 | 8 | 27 | 11 | 7 | ŏ | | |

¹ Excludes Puerto, Virgin Islands, and South Pacific ² American Somoa, Guam, and Trust Territories.

TABLE 3.4 U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES ON RECORD, BY LENGTH OF LONGEST RUNWAY 1, BY FAA REGION AND STATE **DECEMBER 31, 1992**

| FAA State and Region | Total | Under 3000 | 3000- 3999 | 4000- 4999 | 5000- 5999 | 6000 6999 | 7000- 7 999 | 8000- 8999 | 9000- 9999 | 10,000 Over |
|--------------------------|--------|---------------|---------------|---------------|---------------|--------------|-----------------------|---------------|---------------|----------------|
| N | 17,846 | 12,027 | 2,658 | 1,276 | 910 | 358 | 186 | 119 | 69 | 24 |
| U.S. Total 1 | 17,769 | 11,965 | 2,651 | 1,272 | 906 | 350 | 180 | 118 | 67 | 24 |
| Alaska—Total | 559 | 306 | 75 | 43 | 46 | 21 | 10 | 6 | 6 | |
| Central—Total | 1,443 | 1,008 | 242 | 100 | 41 | 18 | 12 | 7 | 3 | 1 |
| lowa | 293 | 202 | 37 | 37 | 8 | 1 | 0 | 3 | 1 1 | i ' |
| | 382 | 264 | 66 | 24 | 15 | 3 | 7 | 0 | Ö | l |
| Kansas | | | | | | | | 1 . | | |
| Missouri | 473 | 346 | 81 | 17 | 11 | 6 | 3 | 1 | 1 1 | ĺ |
| Nebraska | 295 | 196 | 58 | 22 | 7 | 4 | 2 |] 3 | | |
| Eastern-Total | 2,296 | 1,860 | 189 | 84 | 78 | 28 | 14 | 7 | 11 | : |
| Delaware | 36 | 26 | 5 | 2 | 2 | 0 | 1 |) 0 | 0 | |
| District | 16 | 14 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| Maryland | 187 | 152 | 21 | 5 | 6 | 1 1 | 0 | 1 | 1 1 | i |
| New Jersey | 334 | 292 | 20 | 5 | 10 | 2 | 1 | 1 1 | 1 1 | |
| New York | 520 | 390 | 51 | 21 | 19 | 9 | 4 | 2 | الما | ł |
| Pennsylvania | 757 | 660 | 43 | 23 | 13 | 6 | 6 | 1 | 3 | · ' |
| | | | | | | | ٥ | | | |
| Virginia | 345 | 264 | 36 | 21 | 15 | 5 | _ | 2 | 2 | 1 |
| Wast Virginia | 101 | 62 | 13 | 7 | 13 | 4 | 2 | 0 | 0 | |
| Greet Lakes—Total | 4,205 | 3,137 | 558 | 220 | 121 | 59 | 29 | 25 | 8 | l |
| Illinois | 917 | 795 | 58 | 26 | 16 | 10 | 3 | 6 | 0 | i |
| Indiana | 576 | 466 | 53 | 26 | 16 | 5 | 2 | 1 | 1 | i |
| Michigan | 435 | 291 | 73 | 27 | 22 | 10 | 6 | 1 | 1 | l |
| Minnesota | 483 | 274 | 86 | 39 | 30 | 16 | 9 | 6 | 1 | ĺ |
| No. Dakota | 450 | 340 | 78 | 20 | 5 | 3 | 2 | Ĭ | | i |
| | | | | | | | | | : | İ |
| Ohio | 716 | 557 | 87 | 41 | 16 | 5 | 2 | 2 | | ĺ |
| So. Dakota | 157 | 76 | 50 | 19 | 4 | 5 | 1 | 2 | 0 | İ |
| Wisconsin | 471 | 338 | 73 | 22 | 12 | 5 | 4 | 6 | 3 | j |
| New England-Total | 669 | 497 | 53 | 34 | 41 | 11 | 10 | 3 | 2 | İ |
| Connecticut | 131 | 112 | 5 | 6 | 5 | 0 | 1 | l o' | 1 | İ |
| Maine | 156 | 84 | 18 | 15 | 14 | 5 | 4 | 2 | 0 |) |
| Massachusetts | 205 | 163 | 16 | 5 | 13 | 3 | 1 | ī | 1 | İ |
| | 84 | 63 | 6 | Ĕ | 5 | 3 | ; | هٔ ا | Ö | İ |
| New Hampshire | | | - | 3 | 3 | | | | - 1 | |
| Rhode Island | 22 | 17 | 0 | 2 | 1 | 0 | 2 | 0 | 0 | i |
| Vermont | 71 | 58 | 8 | 1 | 3 | 0 | 1 | 0 | O O | İ |
| Northwest Mountain—Total | 1,868 | 1,129 | 303 | 178 | 125 | 49 | 26 | 15 | 16 | 1 |
| Colorado | 395 | 248 | 52 | 36 | 26 | 11 | 6 | 6 | 4 | i |
| Idaho | 212 | 107 | 46 | 37 | 9 | 4 | 2 | 1 | 3 | İ |
| Montana | 234 | 97 | 71 | 38 | 13 | 4 | 1 | 2 | 4 | İ |
| Oregon | 387 | 291 | 46 | 17 | 23 | 6 | 1 | 1 | o | Í |
| Utah | 118 | 38 | 20 | 22 | 20 | 9 | 5 | 2 | 1 | i |
| | | | 52 | | | | _ | | 3 | İ |
| Washington | 423 | 315 | | 13 | 20 | 7 | 4 | 0 | _ | l |
| Wyoming | 99 | 33 | 16 | 15 | 14 | 8 | 7 | 3 | 1 | ĺ |
| Southern-Total | 2,459 | 1,475 | 465 | 226 | 153 | 58 | 25 | 23 | 9 | ĺ |
| Alabama | 208 | 108 | 42 | 26 | 14 | 9 | 1 | 3 | 2 | İ |
| Florida | 732 | 465 | 117 | 68 | 32 | 16 | 11 | 9 | 2 | İ |
| Georgia | 382 | 235 | 72 | 29 | 34 | 8 | 0 | 2 | 1 | l |
| Kentucky | 153 | 97 | 21 | 20 | 8 | 4 | 1 | ا آه | o | ĺ |
| Mississippi | 216 | 105 | 74 | 12 | 9 | 10 | 1 | 4 | 1 | l |
| | | | | | - | | | | | ļ |
| No. Carolina | 344 | 219 | 62 | 32 | 18 | 4 | 5 | 1 | 0 | I |
| Puerto Rico | 33 | 22 | 4 | 2 | 1 | 2 | 0 | 0 | 0 | İ |
| So. Carolina | 153 | 79 | 39 | 15 | 15 | 2 | 1 | 2 | 0 | l |
| Tennessee | 229 | 140 | 34 | 22 | 22 | 3 | 2 | 2 | 3 | ł |
| Vrigin Islands | 9 | 5 | O | 0 | 0 | 0 | 3 | 0 | 0 | 1 |
| Southwest—Total | 2.953 | 1.773 | 563 | 262 | 217 | 60 | 32 | 19 | 6 | l . |
| Arkansas | 243 | 142 | 45 | 27 | 19 | 8 | 1 | 1 | ŏ | İ |
| | | 299 | 58 | | 36 | | 3 | 2 | ŏ | l |
| Louisiana | 426 | | | 17 | | 4 | - | _ | - | l |
| New Mexico | 170 | 46 | 25 | 29 | 38 | 12 | 11 | 6 | 0 | 1 |
| Oklahoma | 411 | 269 | 77 | 29 | 21 | 7 | 3 | 1 | 1 | Í |
| Texas | 1703 | 1,017 | 358 | 160 | 103 | 29 | 14 | 9 | 5 | 1 |
| Western-PacificTotal | 1,394 | 842 | 210 | 129 | 88 | 54 | 28 | 14 | 8 | 1 |
| Arizona | 271 | 136 | 38 | 43 | 23 | 16 | 8 | 5 | ō | |
| California | 920 | 621 | 148 | 59 | 38 | 20 | 9 | 6 | 4 | 1 |
| | | | 5 | | 2 | | | - | 1 | |
| Hawaii | 47 | 33 | - | 2 | | 2 | 1 | 0 | · ' (| |
| Nevada | 121 | 37 | 16 | 23 | 22 | 10 | 7 | 2 | 1 | |
| South Pacific 2 | 35 | 15 | 3 | 2 | 3 | 6 | 3 | 1 1 | 2 | l |

¹ Excludes Puerto, Virgin Islands, and South Pacific ² American Somoa, Guam, and Trust Territories.

TABLE 3.5 U.S. CIVIL AND JOINT-USE AIRPORTS, HELIPORTS, STOLPORTS, AND SEAPLANE BASES ON RECORD, BY FAA REGION AND STATE AND OTHER AREAS **DECEMBER 31, 1983-1992**

| FAA Region and State | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---------------------------|---------------------|--------------|--------------|---------------------|--------------|---------------------|------------|------------|------------|-------|
| tel | 17,846 | 17,581 | 17,490 | 17,446 | 17,327 | 17,015 | 16,582 | 16,318 | 16,079 | 16,02 |
| U.S. Total 1 | 17,769 | 17,500 | 17,419 | 17,377 | 17,250 | 15,949 | 16,516 | 16,252 | 16,013 | 15,98 |
| Alaska-Total | 559 | 545 | 602 | 593 | 603 | 593 | 614 | 610 | 609 | 61 |
| Central—Total | 1,443 | 1,453 | 1,401 | 1,406 | 1,417 | 1,437 | 1,421 | 1,437 | 1,430 | 1,42 |
| lowa | 293 | 290 | 273 | 273 | 274 | 277 | 279 | 278 | 282 | 26 |
| Kansas | 382 | 394 | 386 | 385 | 390 | 389 | 382 | 385 | 384 | 30 |
| Missouri | 473 | 462 | 440 | 431 | 431 | 440 | 429 | 437 | 423 | 4 |
| Nebraska | 295 | 307 | 302 | 317 | 322 | 331 | 331 | 337 | 341 | 34 |
| Eastern—Total | 2,296 | 2,246 | 2,192 | 2,208 | 2,192 | 2,175 | 2,134 | 2,076 | 2,048 | 2,0 |
| Delaware | 36 | 34 | 33 | 34 | 34 | 35 | 37 | 36 | 36 | ; |
| District | 16 | 16 | 16 | 17 | 16 | 15 | 15 | 15 | 15 | |
| Maryland | 187 | 168 | 158 | 162 | 157 | 154 | 155 | 151 | 149 | 1. |
| New Jersey | 334 | 329 | 321 | 322 | 317 | 317 | 286 | 295 | 294 | 2 |
| New York | 520 | 512 | 497 | 493 | 506 | 507 | 495 | 485 | 480 | 4 |
| Pennsylvania | 757 | 752 | 742 | 765 | 756 | 744 | 755 | 719 | 708 | 7 |
| Virginia | 345 | 341 | 331 | 322 | 313 | 308 | 299 | 282 | 274 | 2 |
| West. Virginia | 101 4,205 | 94 | 94 | 93 | 93 | 95 | 92 | 93 | 92 | 4.0 |
| Great Lakes—Total | 917 | 4,219 924 | 4,222 928 | 4,235 938 | 4,190 924 | 4,135 913 | 4,071 | 4,060 | 4,027 | 4,0 |
| Illinois | 576 | 576 | 566 I | | | | 894 | 888 | 901 | 9 |
| Indiana | 435 | 432 | 431 | 554 | 545 434 | 530 | 518 | 523 422 | 495 | 4 |
| Michigan Minnesota | 483 | 477 | 472 | 434 475 | 475 | 431 477 | 419 | 479 | 427 480 | 4 |
| No. Dakota | 450 | 464 | 475 | 4/5 | 486 | 487 | 472 499 | 484 | 450 457 | |
| Ohio | 716 | 714 | 715 | 720 | 714 | 716 | 697 | 690 | 689 | 4 |
| S. Dakota | 157 | 160 | 159 | 158 | 155 | 158 | 161 | 164 | 165 | 1 |
| Wisconsin | 471 | 472 | 476 | 476 | 457 | 423 | 411 | 410 | 413 | 4 |
| New England—Total | 669 | 662 | 648 | 612 | 595 | 568 | 536 | 515 | 509 | 5 |
| Connecticut | 131 | 134 | 132 | 130 | 128 | 120 | 112 | 108 | 104 | 1 |
| Maine | 156 | 159 | 157 | 148 | 146 | 144 | 144 | 144 | 143 | i |
| Massachutts | 205 | 197 | 195 | 181 | 170 | 158 | 141 | 131 | 130 | 1 |
| New Hampshire | 84 | 79 | 74 | 69 | 67 | 62 | 58 | 53 | 54 | |
| Rhode Island | 22 | 23 | 24 | 23 | 23 | 22 | 20 | 18 | 18 | |
| Vermont | 71 | 70 | 66 | 61 | 61 | 62 | 61 | 61 | 60 | |
| Northwest Mountain— | ~ ''1 | 701 | اس - | ٥, | σ, | | ' '' | 0' | • | ' |
| Total | 1.868 | 1,806 | 1,804 | 1,805 | 1,812 | 1,737 | 1,685 | 1,662 | 1,626 | 1,6 |
| Colorado | 395 | 373 | 384 | 385 | 396 | 333 | 323 | 321 | 315 | 3: |
| idaho | 212 | 211 | 211 | 211 | 209 | 207 | 205 | 202 | 198 | 1 |
| Montana | 234 | 227 | 220 | 214 | 212 | 210 | 203 | 200 | 194 | 1 |
| Oregon | 387 | 378 | 370 | 372 | 367 | 366 | 351 | 342 | 336 | 3 |
| Utah | 118 | 112 | 112 | 111 | 113 | 109 | 105 | 101 | 97 | |
| Washington | 423 | 411 | 410 | 412 | 413 | 408 | 396 | 395 | 385 | 3 |
| Wyoming | 99 | 96 | 97 | 100 | 102 | 104 | 102 | 101 | 101 | 1 |
| Southern-Total | 2,459 | 2,364 | 2,305 | 2,285 | 2,293 | 2,165 | 2,009 | 2,002 | 1.961 | 1.9 |
| Alabama | 208 | 203 | 196 | 195 | 201 | 193 | 183 | 174 | 173 | 1 |
| Florida | 732 | 698 | 662 | 645 | 669 | 607 | 594 | 557 | 542 | 5 |
| Georgia | 382 | 375 | 368 | 363 | 352 | 334 | 325 | 304 | 301 | 3 |
| Kentucky | 153 | 144 | 143 | 148 | 148 | 139 | 139 | 134 | 129 | 1: |
| Mississippi | 216 | 207 | 207 | 207 | 205 | 194 | 190 | 188 | 180 | 1 |
| No. Carolina | 344 | 336 | 331 | 332 | 322 | 316 | 307 | 292 | 288 | 2 |
| Puerto Rico | 153 | 29 | 29 | 29 | 28 | 27 | 30 | 31 | 31 | |
| S. Carolina | 229 | 146 | 150 | 150 | 152 | 146 | 137 | 139 | 139 | 1 |
| Tennessee | 33 | 218 | 211 | 208 | 208 | 201 | 186 | 176 | 171 | 1 |
| Vrigin Islands | 9 | 8 | 8 | 8 | 8 | 8 | 8 | 7 | 7 | |
| Southwest—Total | 2,953 | 2,884 | 2,923 | 2,910 | 2,833 | 2,818 | 2,661 | 2,624 | 2,541 | 2,5 |
| Arkansas | 243 | 236 | 230 | 218 | 195 | 173 | 167 | 163 | 156 | 1 |
| Lousiana | 426 | 413 | 426 | 419 | 385 | 381 | 357 | 353 | 317 | 3 |
| New Mexico | 170 | 170 | 164 | 170 | 167 | 174 | 168 | 169 | 167 | 1 |
| Oklahoma | 411 | 403 | 411 | 406 | 399 | 403 | 341 | 336 | 335 | 3 |
| Texas | 1,703 | 1,662 | 1,692 | 1697 | 1687 | 1687 | 1628 | 1603 | 1,566 | 1,5 |
| Western-PacificTotal | 1,394 | 1,400 | 1,393 | 1,392 | 1,392 | 1,387 | 1,361 | 1,332 | 1,328 | 1,3 |
| Arizona | 271 | 273 | 272 | 270 | 272 | 265 | 262 | 246 | 244 | 2 |
| California | 920 | 922 | 918 | 910 | 907 | 909 | 895 | 887 | 881 | 8 |
| Hawaii | 47 | 48 | 50 | 53 | 54 | 54 | 51 | 50 | 51 | _ |
| Mounda | 121 | 122 | 119 | 127 | 127 | 128 | 125 | 121 | 124 | 1 |
| Nevada South Pacific 2 | | | | | | | | | | |

¹ Excludes Puerto, Virgin Islands, and South Pacific ² American Somoa, Guam, and Trust Territories.

TABLE 3.6 AIRPORT IMPROVEMENT PROGRAM: FISCAL YEAR 1992

(Excludes Amendment to Grants) (Thousands of Dollars)

| | Prima | Ŋ | Comme | ercial | Relia | ver | General A | Aviation | System P | lanning | Check 1 | otals |
|------------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|---------------------------|-------------------|
| FAA Region and State | Total Federal Funds | Total Projects | Total Federal Funds | Total Projects | Total Federal Funds | Total Projects | Total Federal Funds | Total Projects | Total Federal Funds | Total Projects | Total Federal Funds | Total Projects |
| Tota: | 1,219,664.2 | 664 | 56,381.2 | 75 | 165,036.1 | 209 | 252,063.5 | 489 | 11,329.1 | 67 | 1,704,473.1 | 150 |
| US Total 1 | 1,191,752.4 | 651 | 52,866.2 | 72 | 165,035.1 | 209 | 249,866.0 | 485 | 11,329.1 | 67 | 1,670,848.8 | 148 |
| Alaska-Total | 22,203.7 | 15 | 13,288.7 | 6 | 0.0 | | 27,014.1 | 20 | 238.2 | 1 | 62,744.7 | 4 |
| CentralTotal | 55,417.0 | 33 | 4,394.5 | i 6 i | 6,860.9 | 9 | 16,930.5 | 28 | 894.9 | 1 6 | 84,517.8 | |
| lowa | 11,092.0 | 11 | 1,688.8 | 3 | 2,728.9 | 1 1 | 6,060.5 | 10 | 125.0 | 1 | 21.695.2 | 2 |
| Kansas | 4,643,1 | 2 | 2,705.7 | l 3 | 2,032.9 | 7 | 6,147.5 | 9 | 155.6 | 2 | 15,684.8 | 2 |
| Missouri | 28,831.5 | 11 | 0.0 | Ō | 0.0 | | 0.0 | l ŏ | 614.3 | 3 | 29,445.8 | 1 |
| Nebraska | 10,850,4 | 9 | 0.0 | ا م | 2,119.1 | | 4,722.5 | ا و | 0.0 | Ō | 17,692.0 | 1 |
| Eastern-Total | 188,161.7 | 112 | 4,516.4 | 9 | 24,335.2 | | 35,000.5 | 75 | 2.210.1 | 16 | 254,223.9 | |
| Delaware | 0.0 | 0 | 0.0 | 0 | 72.9 | | 836.1 | 2 | 58.5 | 1 | 967.5 | |
| District | 0.0 | اة | 0.0 | ŏ | 0.0 | | 0.0 | ō | 180.5 |) i | 180.5 | |
| Maryland | 7,067.4 | 6 | 0.0 | | 2,699.5 | | 1,552.7 | 5 | 0.0 | هٔ ا | 11,319.6 | |
| | 14,619.5 | 7 | 651.4 | 1 | 5.697.4 | | 3,344.5 | 5 | 90.0 | l i | 24,402.8 | |
| New Jersey | | | | | | | | _ | | | | |
| New York | 77,625.3 | 47 | 3,449.4 | 7 | 5,526.3 | | 12,188.6 | 26 | 450.0 | 8 | 99,239.6 | |
| Pennsylvania | 53,304.3 | 24 | 0.0 | 0 | 4,658.5 | | 8,114.9 | 18 | 595.0 | 3 | 66,672.7 | [5 |
| Virginia | 30,781.9 | 20 | 415.6 | 1 1 | 5,680.6 | | 7,005.6 | 12 | 836.1 | 2 | 44,719.8 | 4 |
| W. Virginia | 4,763.3 | 8 | 0.0 | 0 | 0.0 | | 1,958.1 | 7 | 0.0 | 0 | 6,721.4 | 1 |
| Great Lakes—Total | 186,722.4 | 109 | 8,082.7 | 13 | 27,510.1 | | 34,447.1 | 65 | 1,581.5 | 7 | 258,343.8 | 21 |
| Illinois | 60,274.2 | 22 | 0.0 | 0 | 14,000.0 | | 0.0 | 0 | 195.4 | 1 | 74,469.6 | 2 |
| Indiana | 14,305.6 | 17 | 1,401.6 | 1 | 2,290.5 | | 6,119.5 | 10 | 241.7 | 1 | 24,358.9 | 3 |
| Michigan | 34,255.4 | 24 | 3,022.8 | 3 | 2,588.0 | 4 | 7,224.2 | 18 | 150.0 | 1 1 | 47,240.4 | . 5 |
| Minnesota | 20,276.6 | 111 | 852.3 | 2 | 431.5 | 2 | 4,605.0 | 2 | 496.2 | 2 | 26,661.6 | 1 |
| N. Dakota | 8,032.5 | 6 | 719.5 | 2 | 0.0 | | 2,494.8 | l 7 | 0.0 | 0 | 11,246.8 |] i |
| Ohio | 33,047.3 | 14 | 0.0 | اة ا | 3,068.3 | | 6,316.6 | 14 | 194.4 | 1 | 42,626.6 | |
| S. Dekota | 3,041.6 | 1 4 | 1.865.0 | 4 | 0.0 | | 3,349.0 | [] | 0.0 | ه ا | 8,255.6 | |
| Wisconsin | 13.489.2 | 111 | 221.5 | 1 | 5.131.8 | | 4,338.0 | 5 | 303.8 | 1 1 | 23,484.3 | |
| New England—Total | 44,110.5 | 32 | 2.822.0 | | 5,531.3 | | 9.070.7 | 19 | 1,1 33.6 | نة ا | 62,668.1 | |
| | | | | 6 | | | | | | ! 7 | | |
| Connecticut | 9,510.3 | 4 | 0.0 | 0 | 296.7 | | 2,956.3 | 2 | 0.0 | | 12,763.3 | i. |
| Maine | 2,353.8 | 5 | 2,428.6 | 4 | 922.7 | | 2,072.7 | <u> 4</u> | 0.0 | 0 | 7,777.8 | |
| Massachusetts | 13,981.6 | 11 | 141.2 | 1 1 | 861.8 | | 2,686.8 | 7 | 880.4 | 3 | 18,551.8 | 2 |
| New Hampshire | 11,088.8 | 5 | 252.2 | 1 1 | 433.8 | | 1,080.8 | 5 | 0.0 | 0 | 12,855.6 | 1 |
| Rhode Island | 6,123.0 | 4 | 0.0 | 0 | 3,016.3 | | 0.0 | 0 | 253.2 | [1 | 9,392.5 | |
| Vermont | 1,053.0 | 3 | 0.0 | j 0 | 0.0 | 0 | 274.1 | 1 | 0.0 | 0 | 1,327.1 | ľ. |
| Northwest Mountain— | | | | | | | | | | 1 | 1 | Į. |
| Total | 157,072.9 | 88 | 6,296.1 | 15 | 14,742.9 | | 27,912.5 | 71 | 1,383.4 | 13 | 207,407.8 | 20 |
| Colorado | 68,652.6 | J 19 | 3,839.4 | 8 | 7,019.8 | 7 | 4,765.5 | 11 | 260.5 | 4 | 84,537.8 | 4 |
| Idaho | 9,464.0 | 9 | 0.0 | l ol | 0.0 | | 2,976.3 | 7 | 136.8 | 1 | 12,577.1 | 1 1 |
| Montana | 5,895.4 | 10 | 0.0 | ا ا | 0.0 | 0 | 4,872.3 | l 9 | 0.0 | l o | 10,767.7 | 1 |
| Oregon | 9,219.3 | 14 | 98.8 | | 3,583.1 | 3 | 4,152.2 | 11 | 135.0 | 1 1 | 17,188.4 | |
| Utah | 10,359.1 | 6 | 776.4 | 3 | 600.0 | | 3,440.1 | 9 | 127.4 | 2 | 15.303.0 | |
| Washington | 45,543,4 | 14 | 511.5 | 2 | 3,540.0 | | 4,474.6 | 13 | 613.8 | 4 | 54,683.3 | |
| Wyoming | 7.939.1 | 16 | 1.070.0 |] [| 0.0 | | 3.231.5 | 11 | 109.9 | l i | 12,350.5 | 1 2 |
| Southern—Total | 254.182.8 | 115 | 7,173.9 | 5 | 33,697.5 | | 33.913.0 | 91 | 1,707.8 | i . | 330,675.0 | |
| Alabama | 13,440,1 | 10 | 2,525.8 | | 393.1 | | | | | | 20,369.4 | |
| | | | | 2 | | | 4,010.4 | 12 | 0.0 | | | |
| Fiorida | 70,882.3 | 32 | 0.0 | 0 | 20,583.4 | | 9,021.7 | 28 | 325.2 | 2 | 100,812.6 | 8 |
| Georgia | 29,738.9 | 8 | 0.0 | 0 | 6,312.6 | | 5,124.3 | 14 | 980.4 | 2 | 42,156.2 | 3 |
| Kentucky | 34,139.3 | 10 | 0.0 | 0 | 2,777.5 | | 6,155.2 | 11 | 86.0 | 1 | 43,158.0 | 2 |
| Mississippi | 7,758.9 | 8 | 0.0 | 0 | 0.0 | | 2,633.2 | 10 | 241.2 | 1 | 10,633.3 | 1 |
| N. Carolina | 24,680.5 | 11 | 0.0 | 0 | 0.0 | | 0.0 | 0 | 0.0 | 0 | 24,680.5 | 1 |
| Puerto Rico | 7,944.9 | 5 | 2,911.0 | 1 | 0.0 | | 252.7 | 1 | 0.0 | 0 | 11,108.6 | 1 |
| S. Carolina | 11,893.5 | 12 | 0.0 | 0 | 3,630.9 | | 2,842.2 | 9 | 0.0 | 1 0 | 18,366.6 | 2 |
| Tennessee | 44,400.9 | 16 | 1,737.1 | 2 | 0.0 | 0 | 3,873.3 | 6 | 75.0 | [2 | 50,086.3 | 2 |
| Virgin Islands | 9,303.5 | 3 | 0.0 | l ō | 0.0 | 0 | 0.0 | اة ا | 0.0 | Ō | 9,303.5 | |
| Southwest—Total | 162,050.7 | 95 | 3,882.8 | 8 | 27,879.0 | | 32,994.0 | 65 | 1,179.6 | 7 | 227,986.1 | 21 |
| Arkansas | 9,495.9 | 8 | 708.2 | 2 | 1,681.7 | 4 | 3,585.8 | 111 | 115.2 | l i | 15,586.8 | 2 |
| Lousiana | 34,797.6 | 19 | 0.0 | l õ | 3,957.1 | او | 2.764.4 | 10 | 200.0 | 1 ; | 41,719.1 | 1 3 |
| New Mexico | 9.765.3 | 5 | 3.174.6 | 6 | 819.0 | | 4.771.7 | 9 | 255.8 | ءُ ا | 18,786.4 | |
| Oklahoma | 17.442.7 | 9 | 0.0 | اة | 4,133.2 | | 6,159.3 | 11 | 283.8 |] 2 | 28,019.0 | |
| | 90.549.2 | 54 | 0.0 | | | | 15,712.8 | 24 | 283.8 324.8 | 1 | | 8 |
| Texas | | | | 0 | 17,288.0 | 1 40 | | | | | 123,874.8 | |
| Western-Pacififo-Total | 149,742.5 | 65 | 5,924.1 | 7 | 24,458.2 | | 34,781.1 | 55 | 1,000.0 | 5 | 215,905.9 | |
| Arizona | 27,112.1 | 8 | 4,920.1 | 3 | 5,371.6 | | 5,494.0 | 10 | 664.5 | 2 | 43,562.3 | |
| California | 69,321.0 | [39] | 0.0 | 0 | 16,519.4 | | 21,756.5 | 36 | 204.6 | 2 | 107,801.5 | 9 |
| Hawaii | 20,736.6 | 7 | 400.0 | 2 | 0.0 | | 0.0 | 0 | 0.0 | 0 | 21,136.6 | |
| Nevada | 21,909.4 | 6 | 0.0 | 0 | 2,567.2 | | 5,585.8 | 6 | 130.9 | 1 | 30,193.3 | 1 |
| South Pacific 2 | 10.663.4 | 5 | 604.0 | 2 | 0.0 | 0 | 1.944.8 | l sl | 0.0 | 0 | 13,212,2 | l 1 |

Excludes Puerto Rico, Virign Islands, amd South Pacific
 American Samoa, Guern, North Mariana, and Trust Territories
 Note: Excludes State Block Grants: Illinois 29,235.9 14,003.2 N.Carolina 17,278.1 Total 60,517.2

IV. AIRPORT ACTIVITY OF CERTIFICATED ROUTE AIR CARRIERS

This chapter covers only the large scheduled certificated air carriers;* and thus excludes the charter only, small certificated, commuter, intrastate and foreign-flag air carriers. Note that this chapter covers only a subset of the carriers covered by Chapter VI—U.S. Certificated Air Carriers—Operating Data.

The data presented in this chapter were obtained from information reported quarterly to the Department of Transportation's Research and Special Programs Administration (RSPA) by the large scheduled certificated air carriers on Schedules T-100 and T-3, RSPA Form 41, Uniform System of Accounts and Reports for Large Certificated Air Carriers. These statistics summarize, scheduled and non scheduled service revenue; passenger enplanements; aircraft departures; and tons of freight, express, and mail enplaned at certificated points in the 50 States, the District of Columbia, and other U.S. areas served by the carriers.

The activity information in Tables 4.5-4.9 is presented by "hubs". Air traffic hubs are geographical areas, and are based on the percentage of total passengers enplaned in the area. A hub may have more than one airport in it. This definition of hub should not be confused with the definition being used by the airlines in describing their "hub and spoke" structures. The hubs constitute a primary focal point for the transportation research programs of the FAA, and the analyses of individual cities within an area are treated in relationship to the entire area.

Individual communities tall into four hub classifications as determined by each community's percentage of the total enplaned revenue passengers in all services and all operations of U.S. certificated route air carriers within the 50 States, the District of Columbia, and other U.S. areas. Classifications in this issues are based on 447,625,9978 total enplaned revenue passengers.

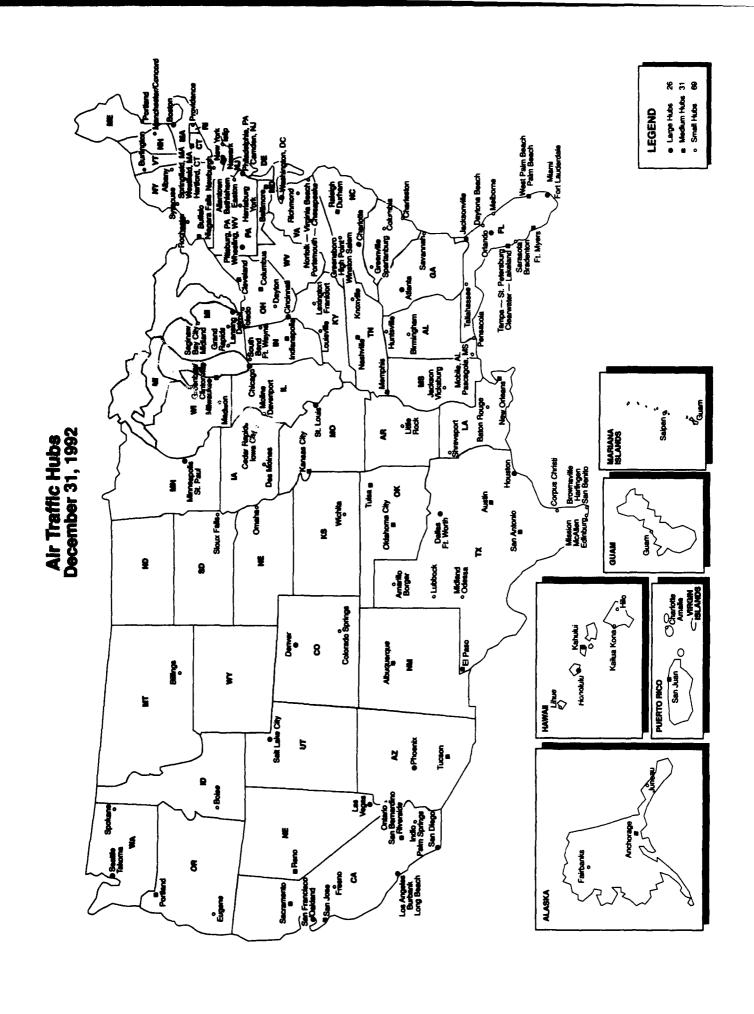
The percentage and number of enplaned passengers in the hub classifications for 12 months ending December 31, 1992 are:

| Hub Classification | Percentage of Total Enplaned Passengers | Number of Enplaned Passengers |
|--------------------|---|-------------------------------|
| Large (L) | 1.00 or more | 4,476,260 or more |
| Medium (M) | 0,25 to 0.99 | 1,119,064 to 4,476,260 |
| Small (S) | 0.05 to 0.24 | 223,812 to 1,119,064 |
| Nonhub (N) | less than 0.05 | less than 223,812 |

During 1992 there were 126 air traffic hubs representing 25% of the 496 air traffic hubs and nonhubs in the 50 states, the District of Columbia, and other U. S. areas receiving air carrier service during the year. The dominance of the hubs in air traffic patterns is brought out by the fact that 98% of passenger enplanements were recorded at these 126 hubs. The table below shows the number of hubs/nonhubs and the number of airports in those hubs. It also shows the number and percentage of passenger enplanements at the hubs/nonhubs.

| Hub Classification | Number of Hubs/ Nonhubs | Number of Airports | Passengers Enplaned | Passengers Percent |
|--------------------|----------------------------|--------------------|---------------------|--------------------|
| Large | 26 | 49 | 319,582,090 | 71.39 |
| Medium | 31 | 39 | 80,800,955 | 18.05 |
| Smail | 69 | 73 | 36,879,632 | 8.24 |
| Nonhub | 370 | 382 | 10,363,311 | 2.32 |
| TOTAL | 496 | 543 | 447,625,998 | 100.00 |

^{*}Large Certificated Air Carrier—carrier holding a certificate issued under Section 401 of the Federal Aviation Act of 1958 and operating aircraft designed to have a maximum passenger seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds or conducting international operations.



2929.FMT 04/29/93

TABLE 4.1 LARGE SCHEDULED CERTIFICATED AIR CARRIERS AS OF DECEMBER 31, 1992

Aerial Transit
Air Wisconsin
Alaska Airlines
Aloha Airlines
America West Airlines
American Int'l.
American Trans Air
Amerijet
Arrow Air
Braniff Int'l.
Carnival
Casino Express
Challenge Air Transport
Continental Air Lines
Delta Air Lines
Executive Airlines
Federal Express
Fine Airlines
Hawaiian Airlines
Horizon Air
Key

Kiwi Markair MGM Grand Midwest Express Airlines Northern Air Cargo Northwest Airlines Reeve Aleutian Airways Reno Ryan Simmons Southwest Airlines Spirit Tower Air Trans States Trans World Airlines United Air Lines
United Parcel U.S. Air U.S. Air Shuttle Westair Zantop

TABLE 4.2 ¹ AMERICAN FLAG AIRLINE TRAFFIC ENPLANED SYSTEM TOTAL LARGE SCHEDULED CERTIFICATED AIR CARRIERS SCHEDULED AND NONSCHEDULED OPERATIONS 1983–1992

| Van | Enp | laned Passenege | 78 | Air Carrier | Tons of | Tons of Enplaned Cargo | |
|--------|-------------|-----------------|---------------|------------------------|---------------|---------------------------|--|
| Year | Total | Domestic | International | Aircraft Departures | Enplaned Mail | | |
| 1983 | 319,886,291 | 297,484,708 | 22,401,583 | 5,043,040 | 1,293,103.6 | 3,219,495.8 | |
| 1984 | 344,831,718 | 321,136,409 | 23,695,309 | 5,449,541 | 1,389,154.7 | 3,579,216.1 | |
| 1985 | 381,108,118 | 356,103,027 | 25,005,091 | 5,696,217 | 1,486,900.6 | 3,415,759.7 | |
| 1986 | 418,563,577 | 393,267,950 | 25,295,582 | 6,401,599 | 2,066,173.6 | 4,718,544.1 | |
| 1987 | 448,913,726 | 417,869,993 | 31,043,733 | 6,640,400 | 1,621,734.2 | 5,073,264.9 | |
| 1988 | 456,026,372 | 420,326,215 | 35,700,157 | 6,724,445 | 1,717,738.7 | 5,860,039.0 | |
| 1989 | 455,263,066 | 417,644,895 | 37,618,171 | 6,648,452 | 1,631,316.3 | 6,573,790.5 | |
| 19902 | 438,544,001 | NA Ì | NA | 6,641,681 | 1,566,098.1 | 4,732,726.1 | |
| 1991 2 | 428,319,248 | NA | NA | 6,545,000 | 1,562,990.7 | 4,854,513.1 | |
| 19922 | 447,625,988 | NA . | NA | 6,606,609 | 1,682,631.6 | 5,053,677.9 | |

¹ includes operations of certificated all-cargo carriers.

NA- No longer available.

Source: RSPA-FAA Airport Activity Statistics of Certificated Route Air Carriers.

TABLE 4.3 *
AMERICAN FLAG AIRLINE TRAFFIC ENPLANED—50 STATES
LARGE SCHEDULED CERTIFICATED AIR CARRIERS
SCHEDULED AND NONSCHEDULED OPERATIONS
1983–1992

| Year | Enp | laned Passenege | rs | Air Carrier | Tons of | Tons of Enplaned Cargo | |
|------|-------------|-----------------|---------------|------------------------|---------------|---------------------------|--|
| | Total | Domestic | International | Aircraft Departures | Enplaned Mail | | |
| 1983 | 301,347,773 | 292,962,603 | 8,385,170 | 4,825,467 | 1,227,581.1 | 2,558,106.8 | |
| 1984 | 325,233,918 | 316,280,548 | 8,953,370 | 5,232,782 | 1,310,016.9 | 2,749,633.9 | |
| 1985 | 360,710,517 | 351,346,625 | 9,363,892 | 5,476,633 | 1,416,643.1 | 2,548,025.1 | |
| 1986 | 396,961,967 | 387,599,481 | 9,362,486 | 6,153,247 | 1,980,248.3 | 3,728,296.2 | |
| 1987 | 422,747,715 | 411,311,165 | 11,436,550 | 6,372,793 | 1,534,719.8 | 3,948,060.7 | |
| 1988 | 426,937,914 | 413,790,076 | 13,147,838 | 6,426,421 | 1,626,030.8 | 4,550,772.8 | |
| 1969 | 425,103,192 | 411,139,530 | 13,963,662 | 6,331,555 | 1,537,234.6 | 5,116,092.4 | |
| 1990 | 433,254,832 | NA | NA | 6,572,179 | 1.558.021.6 | 4,629,653.7 | |
| 1991 | 422,601,128 | NA NA | NA | 6,456,329 | 1,550,220.5 | 4,750,582.2 | |
| 1992 | 441.545.379 | NA | NA | 6,519,252 | 1,676,037.1 | 4,952,682,6 | |

^{*} Includes operations of certificated all-cargo carriers.

NA- No longer available.

Source: RSPA-FAA Airport Activity Statistics of Certificated Route Air Carriers.

² Excludes traffic enplaned in foreign countries.

TABLE 4.4* AMERICAN FLAG AIRLINE TRAFFIC ENPLANED—U.S. TERRITORIES LARGE SCHEDULED CERTIFICATED AIR CARRIERS SCHEDULED AND NONSCHEDULED OPERATIONS 1983–1992

| Year | Enp | laned Passeneger | 3 | Air Carrier | Tons of | Tons of Enplaned Cargo | |
|------|-----------|------------------|---------------|------------------------|---------------|---------------------------|--|
| 164 | Total | Domestic | International | Aircraft Departures | Enplaned Mail | | |
| 1983 | 2,372,861 | 1,788,115 | 584,746 | 34,942 | 6,035.8 | 68,088.1 | |
| 1984 | 2,537,084 | 1,888,024 | 649,060 | 34,196 | 6,746.3 | 69,167.6 | |
| 1985 | 2,630,980 | 1,940,298 | 690,682 | 29,026 | 6,799.9 | 53,001.9 | |
| 1986 | 3,046,033 | 2,249,694 | 796,339 | 38,960 | 6,856.5 | 62,206.8 | |
| 1987 | 4,068,330 | 2,940,763 | 1,127,567 | 39,690 | 7,389.6 | 66,511.0 | |
| 1988 | 4,478,219 | 3,081,000 | 1,397,219 | 43,435 | 8,143.1 | 75,496.4 | |
| 1989 | 4,551,410 | 2,974,207 | 1,577,203 | 41,978 | 7,693.8 | 83,661.0 | |
| 1990 | 5,289,169 | NA | NA | 69,502 | 8,076.5 | 103,072.3 | |
| 1991 | 5,718,120 | NA | NA | 88,671 | 12,770.2 | 103,931.0 | |
| 1992 | 6,080,609 | NA | NA . | 87,357 | 6,594.5 | 100,995.3 | |

^{*} Includes operations of certificated all-cargo carriers.

NA- No longer available.

Source: RSPA-FAA Airport Activity Statistics of Certificated Route Air Carriers.

TABLE 4.5 *
AMERICAN FLAG AIRLINE TRAFFIC ENPLANED—FOREIGN COUNTRIES
LARGE SCHEDULED CERTIFICATED AIR CARRIERS
SCHEDULED AND NONSCHEDULED OPERATIONS
1983–1992

| Year | Enp | laned Passeneger | 8 | Air Carrier | Tons of | Tons of Enplaned Cargo | |
|------|------------|------------------|---------------|------------------------|---------------|---------------------------|--|
| | Total | Domestic | International | Aircraft Departures | Enplaned Mail | | |
| 1983 | 16,165,657 | 2,733,990 | 13,431,667 | 182,631 | 59,486.7 | 593,300.9 | |
| 1984 | 17,060,716 | 2,987,837 | 14,092,879 | 182,563 | 72,391.5 | 760,414.6 | |
| 1985 | 17,766,621 | 2,816,104 | 14,950,517 | 190,558 | 63,477.6 | 814,732.7 | |
| 1986 | 18,555,577 | 3,418,820 | 15,136,757 | 209,392 | 78,068.8 | 928,041.1 | |
| 1987 | 22,097,681 | 3,618,065 | 18,479,616 | 227,917 | 79,624.7 | 1,058,693.2 | |
| 1988 | 24,610,239 | 3,455,139 | 21,155,100 | 254,589 | 83,564.8 | 1,233,769.8 | |
| 1989 | 25,608,464 | 3,531,158 | 22,077,306 | 274,919 | 86,387.8 | 1,374,037.1 | |
| 1990 | NA | NA | NA | NA | NA | NA NA | |
| 1991 | NA | NA | NA . | NA | NA | NA | |
| 1992 | NA Í | NA | NA NA | NA I | NA : | NA | |

^{*} Includes operations of certificated all-cargo carriers.

NA- No longer available.

Source: RSPA-FAA Airport Activity Statistics of Certificated Route Air Carriers.

TABLE 4.6
SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS,
AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS,
BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER
12 MONTHS ENDED DECEMBER 31, 1992

| | | | Aircraft D | epertures | Enplaned | Enplaned Rev | enue Tons |
|---|-----------|-------------|---------------------|--------------------|--------------------------|--------------------------|---|
| Carrier Group Air Carrier | Operation | Service | Total Performed | Scheduled | Passengers | Freight | Mail |
| MAJORS | | | | | | | |
| AMERICA WEST | TOTAL | S | 203,899 | 205,678 | 15,087,663 | 43,401.93 | 45,027.53 |
| | 1 | NS AS | 624 | 205 670 | 22,507 | 43,401.93 | 45 007 50 |
| AMERICAN | TOTAL | s s | 204,523 870,582 | 205,678 882,722 | 15,110,170 79,336,223 | 43,401.93 434,422.86 | 45,027.53 274,339.18 |
| | 1012 | NS. | 332 | 002,722 | 20,684 | 434,422.00 | 274,009.10 |
| | 1 | AS | 870,914 | 882,722 | 79,356,907 | 434,422.86 | 274,339.18 |
| CONTINENTAL | TOTAL | S | 454,857 | 461,709 | 35,625,687 | 194,636.28 | 102,578.70 |
| | İ | NS AS | 2,604 | 1 404 700 | 295,506 | 404,000,00 | 400 570 70 |
| DELTA | TOTAL | s s | 457,461 963,658 | 461,709 970,825 | 35,921,193 78,801,890 | 194,636.28 436,865.93 | 102,578.70 361,283.54 |
| \$ 1.5 to the second sec | 10174 | NS NS | 925 | 3,0,023 | 53,533 | 400,000.50 | 301,200.54 |
| |) | AS | 964,583 | 970,825 | 78,855,423 | 436,865.93 | 361,283.54 |
| FEDERAL EXPRESS | TOTAL | s | 228,273 | 228,273 | | 2,499,977.52 | 17,514.02 |
| | l | NS | 1,243 | | 28,339 | 4,584.01 | |
| NORTHWEST | 7074 | AS S | 229,516 | 228,273 | 26,339 | 2,504,561.53 | 17,514.02 |
| , NORTHWEST | TOTAL | NS | 508,854 253 | 516,948 | 38,728,639 21,938 | 433,629.23 644.66 | 193,983.96 |
| | 1 | AS | 509,107 | 516,948 | 38,750,577 | 434,273.89 | 193,983,96 |
| SOUTHWEST | TOTAL | Š | 438,190 | 443,385 | 31,023,005 | 27,782.51 | 18,950.59 |
| | | NS | 511 | | 58,608 | _ , | , |
| | i | AS | 438,701 | 443,385 | 31,081,613 | 27,782.51 | 18,950.59 |
| TRANS WORLD | TOTAL | S | 261,225 | 266,346 | 20,814,013 | 122,802.04 | 102,568.35 |
| | ł | NS | 1,143 | 200 240 | 91,776 | 100 100 04 | 100 560 05 |
| UNITED | TOTAL | AS S | 262,368 676,255 | 266,346 687,120 | 20,905,789 60,441,338 | 122,302.04 402,704.64 | 102,568.35 273,210.17 |
| | 101AC | NS | 791 | 007,120 | 78,778 | 102,704.04 | 273,210.17 |
| | Ì | AS | 677,046 | 687,120 | 60,520,116 | 402,704.64 | 273,210.17 |
| US AIR | TOTAL | S | 901,922 | 925,486 | 53,712,739 | 102,670.49 | 178,211.06 |
| | l | NS | 3,317 | ľ | 275,775 | .04 | |
| | 1 | AS | 905,239 | 925,486 | 53,988,514 | 102,670.53 | 178,211.06 |
| TOTAL, MAJORS | TOTAL | S NS | 5,507,715 11,743 | 5,586,492 | 413,571,197 947,444 | 4,696,893.43 5,228.71 | 1,567,667.10 |
| | | AS | 5,519,458 | 5,508,492 | 414,518,641 | 4,704,122.14 | 1,567,667.19 |
| NATIONALS | 1 | " | 3,513,133 | , ,,,,,, | 111,010,011 | 1,100,100 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| AIR WISCONSIN | | S | 101,673 | 105,504 | 2,864,354 | 1,051.58 | 1,730.40 |
| ALASKA | TOTAL |) <u>\$</u> | 111,601 | 111,760 | 5,856,965 | 55,125.92 | 37,904.21 |
| | | NS AS | 112,281 | 111,760 | 43,683 5,900,648 | 280.73 55,406.65 | 411.74 38.315.95 |
| ALOHA | TOTAL | S | 79.023 | 81,758 | 4,661,682 | 8.981.48 | 5,235,53 |
| | 10.72 | NS | 119 | 0.,, | 7,819 | .63 | .01 |
| | l | AS | 79,142 | 81,758 | 4,869,501 | 8,982.11 | 5,235.54 |
| AMERICAN TRANS | TOTAL | S | 3,346 | 3,346 | 462,296 | | |
| | i | NS | 3,251 | | 530,417 | 1 | |
| HAWAIIAN | TOTAL | AS S | 6,597 66,498 | 3,346 68,449 | 992,713 4,569,259 | 17.579.68 | 4.751.68 |
| | 101AL | NS | 965 | 00,448 | 71,323 | 17,578.00 | 4,/31.00 |
| | | AS | 67,453 | 68,449 | 4,640,582 | 17,579.68 | 4.751.68 |
| HORIZON AIR | TOTAL | S | 187,188 | 192,928 | 2,244,371 | 5,649.76 | 2,119.28 |
| MARKAIR | TOTAL | S | 23,195 | 23,833 | 548,507 | 13,155.25 | 20,665.97 |
| | [| NS | 1,096 | | 13,813 | 7,664.01 | 15.07 |
| MIDWEST EXPRESS | TOTAL | AS | 24,291 | 23,833 | 562,320 | 20,819.26 | 20,681.04 |
| MIUTEG! EAFREGS | TOTAL | S NS | 21,855 201 | 22,062 | 808,025 9,749 | 4,458.10 | 6,543.10 |
| | 1 | AS | 22,056 | 22.062 | 817,774 | 4,458.10 | 6,543,10 |
| TOWER | TOTAL | 8 | 1,021 | 1,021 | 322,200 | 963.98 | 2,0 .2.10 |
| | 1 | NS | 129 | 1 | 49,147 | | |
| I WITTE CAROCI | | AS | 1,150 | 1,021 | 371,347 | 983.98 | |
| UNITED PARCEL | TOTAL | S | 1,426 | 1,418 | | 43,268.45 | |
| | l | NS AS | 169 1,595 | 1,418 | | 37.62 43.306.07 | |
| US AIR SHUTTLE | TOTAL | S | 21,399 | 22,260 | 1,469,248 | 43,306.07 83.74 | 166.20 |
| | | NS | 246 | | 34,210 | 33.74 | .00.20 |
| | ł | AS | 21,645 | 22,260 | 1,503,458 | 83.74 | 166.20 |
| WESTAIR | TOTAL | 8 | 169,171 | 189,132 | 2,112,613 | ı | |

TABLE 4.6—Continued SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, BY TYPE OF SERVICE, BY CARRIER GROUP, AND BY AIR CARRIER 12 MONTHS ENDED DECEMBER 31, 1992

| | 1 | | Aircraft D | epartures | Englaned | Enplaned Reve | nue Tons |
|-------------------------------|-----------|----------|--------------------|--------------------|------------------------|--------------------------|------------------------|
| Carrier Group Air Carrier | Operation | Service | Total Performed | Scheduled | Passengers | Freight | Mail |
| TOTAL, NATIONALS | TOTAL | 8 | 787,396 | 823,471 | 25,919,520 | 150,337.94 | 79,116.3 |
| | | NS | 6,846 | 1 | 760,161 | 7,982.99 | 426.8 |
| ADOS DECICIONAS O | | AS | 794,242 | 823,471 | 26,579,681 | 158,320.93 | 79,543.1 |
| ARGE REGIONALS AMERICAN INTL | TOTAL | s | j |] |] } | 666.31 | 30.7 |
| | 10172 | NS. | 4,469 | Į. | 1 [| 666.31 | 30.7 |
| | | AS | 4,469 |] | ļ i | 1,332.62 | 61.5 |
| AMERIJET | TOTAL | S | 504 | ļ | i [| 7,417.98 | |
| | | NS | 270 | 1 | ļ ļ | 3,453.58 | 13.6 |
| ARROW | TOTAL | AS S | 774 289 | 514 | 1 1 | 10,871.56 14,460.18 | 13.6 |
| ANNOW | | NS | 541 | 3,7 | 1 1 | 17.021.62 | |
| | | AS | 830 | 514 | 1 | 31,481.80 | |
| BRANIFF INTL | | S | 5,414 | 5,608 | 517,954 | | |
| CARNIVAL | TOTAL | | 5,190 | 4,928 | 465,066 | 796.31 | 50.4 |
| | | NS | 1,469 | 4,000 | 155,698 | 46.39 | 50 4 |
| CHALLENGE | TOTAL | AS S | 6,659 1,836 | 4,928 1,836 | 620,764 | 842.70 45.287.66 | 50.4 1,587.4 |
| UNALLENGE | | NS | 30 | 1,000 | 1 | 861.27 | 1,367.48 |
| | | AS | 1.866 | 1.836 | j j | 46,148.93 | 1,587.4 |
| EXECUTIVE AIRLINES | TOTAL | S | 34,291 | 35,559 | 689,726 | 6.49 | 10.0 |
| | j | NS | 3 | 1 | 37 | | |
| | | AS | 34,294 | 35,559 | 689,763 | 6.49 | 10.0 |
| KEY | TOTAL | S NS | 1,846 | 1,846 | 38,785 | ŀ | |
| | 1 | AS | 114 1,960 | 1,846 | 7,906 46,691 | | |
| KIWI | TOTAL | | 1,156 | 1,162 | 89,095 | | 20.0 |
| MGM GRAND | | | 1,229 | 1,229 | 44,553 | 1,813.62 | 229.1 |
| | | NS | 226 | | 6,034 | | |
| | | AS | 1,455 | 1,229 | 50,587 | 1,813.62 | 229.1 |
| NORTHERN AIR | TOTAL | S NS | 7,788 | 6,549 | 1 1 | 17,147.09 | 19,720.2 |
| | | AS | 281 8,069 | 6,549 | 1 1 | 1,758.39 18.905.48 | 30.3 19,750.5 |
| REEVE | TOTAL | S | 3,510 | 3,459 | 56,530 | 2.386.58 | 3,240.5 |
| | | NS | 111 | 1 | 2,284 | 196.54 | 64.3 |
| | | AS | 3,621 | 3,459 | 58,814 | 2,583.12 | 3,304.8 |
| RENO | TOTAL | S | 5,321 | 5,380 | 390,784 | 88.90 | 617.3 |
| | | NS AS | 5,325 | 5,380 | 257 391,041 | 90.00 | 617.0 |
| SIMMONS | TOTAL | s s | 107,268 | 111,843 | 2,341,278 | 88.90 729.26 | 617.3 1,095.1 |
| | | NS | 2 | 1, | 51 | . 25.25 | 1,000.11 |
| | | AS | 107,270 | 111,843 | 2,341,329 | 729.26 | 1,095.1 |
| TRANS STATES | TOTAL | S | 97,274 | 100,851 | 1,322,183 | 1 | |
| ZANTOP | TOTAL | | 6,533 | 7,403 | 1 1 | 64,714.00 | 6,915.6 |
| | 1 | NS AS | 2,239 8,772 | 7,403 | 1 1 | 7,304.33 72.018.33 | 6,915.6 |
| TOTAL, LARGE REGIONALS | TOTAL | | 279,449 | 268,167 | 5,958,954 | 155,514.38 | 33.516.5 |
| | | NS | 9,759 | | 172,267 | 31,308.43 | 139.2 |
| | | AS | 269,208 | 288,167 | 6,128,221 | 186,822.81 | 33,656.7 |
| NEDIUM REGIONALS | | 1 _ |] | |] | | |
| AERIAL TRANSIT | TOTAL | S NS | 52 104 | 52 | 1 ! | 631.74 | 3.5 |
| | | AS | 156 | 52 | | 1,353.80 1,985.54 | 3.5 |
| CASINO EXPRESS | TOTAL | ŝ | 1,784 | 1,784 | 150,991 | 1,565.54 | 3.5 |
| | | NS | 32 | 1 | 3,369 | | |
| | | AS | 1,816 | 1,784 | 154,360 | i | |
| FINE AIRLINES | TOTAL | S | 160 | 160 | 1 | | 1,762.0 |
| RYAN | TOTAL | S | 130 | 130 | 1 1 | 2,426.48 | |
| | 1 | NS AS | 31 161 | 130 | 1 1 | 2,426.48 | |
| SPIRIT AIR | TOTAL | s | 1,366 | 1,414 | 141,358 | 2,720.70 | |
| | | NS | 42 | l """ | 3,727 | ļ | |
| | 1 | AS | 1,408 | 1,414 | 145,085 | | |
| TOTAL, MEDIUM REGIONALS | TOTAL | 8 | 3,492 | 3,540 | 292,349 | 3,058.22 | 1,765.5 |
| | 1 | NS NS | 200 | | 7,006 | 1,353.80 | 4 700 0 |
| OVER-ALL TOTAL, ALL CARRIERS | TOTAL | AS S | 3,701 6,578,052 | 3,540 6,703,670 | 299,445 445,739,020 | 4,412.02 5,007,803.97 | 1,785.5 1,682,065.5 |
| OTENTAL IVIAL MEL UNINIERO | 101AL | NS | 26,557 | 0,700,070 | 1,886,968 | 45,873.93 | 566.0 |
| | | | | | , .jovajace | | |

TABLE 4.7 SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, BY TYPE OF SERVICE, AND BY STATE AND U.S. AREA 12 MONTHS ENDED DECEMBER 31, 1992

| . | | | Aircraft D | epartures . | Enplaned | Enplaned Revi | enue Tons |
|-----------------|-----------|----------|--------------------|------------------|----------------------|-------------------------|---------------------|
| State or County | Operation | Service | Total Performed | Scheduled | Passengers | Freight | Mail |
| U. S. STATES | | | | | | | |
| ALABAMA | TOTAL | S | 40,206 | 40,618 | 1,825,687 | 12,882.18 | 6,869.2 |
| | | NS AS | 20 40,228 | 40,618 | 872 1.826,559 | 9.04 | 6,869.2 |
| ALASKA | TOTAL | ŝ | 77,926 | 77,482 | 2.324.195 | 314,954.18 | 71,438.8 |
| | | NS | 1,997 | .,, | 20,531 | 9,914.12 | 110.1 |
| | j | AS | 79,923 | 77,482 | 2,344,726 | 324,868.30 | 71,549.0 |
| ARIZONA | TOTAL | S | 165,818 | 167,365 | 11,959,701 | 50,125.89 | 29,123.3 |
| | | NS AS | 374 166,192 | 167,365 | 14,260 11,973,961 | 3.04 50,128.93 | 29,124.1 |
| ARKANSAS | | S | 19,442 | 19,718 | 1,036,158 | 948.99 | 4,230.7 |
| | | NS | 15 | ,,,,,, | 473 | .71 | ., |
| | | AS | 19,457 | 19,718 | 1,036,631 | 949.70 | 4,230. |
| CALIFORNIA | TOTAL | S | 729,634 | 739,720 | 55,620,061 | 758,358.05 | 173,973. |
| | | NS | 2,563 | | 190,054 | 2,094.50 | 2.6 |
| COLORADO | TOTAL | AS S | 732,197 | 739,720 | 55,810,135 | 760,452.55 80,252,04 | 173,976.0 |
| COLONADO | | NS | 179,434 309 | 182,251 | 14,438,312 12,651 | 14.27 | 43,754.4 1.0 |
| | | AS | 179,743 | 182,251 | 14,450,963 | 80,266.31 | 43,755.5 |
| CONNECTICUT | TOTAL | S | 31,178 | 31,698 | 2,194,334 | 15,796.71 | 14,733. |
| | | NS | 268 | · | 435 | 71.58 | |
| | | AS | 31,446 | 31,698 | 2,194,769 | 15,858.29 | 14,734.1 |
| DELAWARE | TOTAL | S | .! | 4 | | 50.19 | |
| | İ | NS AS | 34 35 | | | 20.00 70.19 | |
| DIST, OF COL | TOTAL | s | 152,200 | 155,416 | 11,282,751 | 69,807.39 | 59,149.2 |
| | 10774 | NS | 124 | 150,410 | 7,520 | .05 | 00,140. |
| | | AS | 152,324 | 155,416 | 11,290,271 | 69,807.44 | 59,149.2 |
| FLORIDA | TOTAL | S | 400,326 | 404,687 | 32,784,757 | 285,000.45 | 82,264.9 |
| | | NS | 3,480 | 40.000 | 307,608 | 18,106.38 | 13.0 |
| GEORGIA | TOTAL | AS S | 403,806 | 404,687 | 33,092,365 | 303,106.83 | 82,278.0 |
| GEORGIA | TOTAL | NS | 230,473 750 | 231,839 | 20,369,753 13,003 | 159,975.72 228.28 | 101,972.1 1.9 |
| | ì | AS | 231,223 | 231,839 | 20,382,756 | 160,204.00 | 101,974.0 |
| HAWAII | TOTAL | s | 174,046 | 179,064 | 13,976,192 | 136,626.01 | 26,222.4 |
| | | NS | 1,287 | , | 128,457 | 2.53 | .0 |
| | Ī | AS | 175,333 | 179,064 | 14,104,649 | 136,628.54 | 26,222.5 |
| DAHO | TOTAL | S | 37,320 | 38,004 | 785,670 | 4,712.55 | 2,374.4 |
| | | NS AS | 37,331 | 38,004 | 403 786,073 | 4,712.55 | 2,374.4 |
| ILLINOIS | | S | 455,793 | 467,433 | 31,470,652 | 313,040.56 | 142,722.4 |
| | | NS | 823 | 407,400 | 53,301 | 690.89 | 1-70-7-02 |
| | l l | AS | 456,616 | 467,433 | 31,523,953 | 313,731.45 | 142,722.4 |
| INDIANA | TOTAL | S | 81,857 | 83,449 | 3,462,822 | 146,727.45 | 13,391. |
| | 1 | NS | 1,089 | | 72,652 | 116.16 | 14. |
| 101114 | TOTAL | AS S | 82,946 | 83,449 | 3,535,474 | 146,843.61 | 13,405. |
| ЮWA | TOTAL | NS | 32,212 37 | 33,138 | 1,206,962 1,487 | 13,430.47 | 13,918. |
| | | AS | 32,249 | 33,138 | 1,208,449 | 13,431.98 | 13,918.7 |
| KANSAS | TOTAL | S | 12,721 | 12,825 | 573,939 | 7,468.82 | 2,772.2 |
| | | NS | 20 | | | .41 | |
| | l | AS | 12,741 | 12,825 | 573,939 | 7,469.23 | 2,772.2 |
| KENTUCKY | TOTAL | S | 31,478 | 31,902 | 1,280,234 | 8,965.66 | 7,445.1 |
| | | NS AS | 184 31,662 | 31,902 | 2,667 1,282,901 | 9,009.68 | 7,445,1 |
| LOUISIANA | TOTAL | s | 60,227 | 60,808 | 3,991,265 | 21,602.87 | 10,299.9 |
| | | NS | 177 | 33,533 | 15,272 | 4.00 | |
| | | AS | 60,404 | 60,808 | 4,006,537 | 21,606.87 | 10,299.9 |
| MAINE | TOTAL | S | 12,125 | 12,269 | 589,517 | 5,050.95 | 1,397.6 |
| | | NS | 14 | | 805 | | |
| MARYLAND | TOTAL | AS S | 12,139 55,132 | 12,269 56,253 | 570,322 3,586,481 | 5,050.95 14,078.74 | 1,397.6 20,391.2 |
| RANTENIU | | NS | 427 | 30,233 | 28,136 | 63.36 | 20,381.2 |
| | 1 | AS | 55,559 | 56,253 | 3,614,617 | 14,142.10 | 20,391.2 |
| MASSACHUSETTS | TOTAL | S | 112,796 | 115,970 | 9,101,086 | 119,252.14 | 33,186.4 |
| | - 1 | NS | 591 | | 54,519 | 187.48 | 2. |
| 440110441 | | AS | 113,387 | 115,970 | 9,155,605 | 119,439.62 | 33,187.4 |
| MICHIGAN | TOTAL | S | 182,937 | 186,846 | 11,844,574 | 93,690.94 | 46,828.2 |
| | | NS AS | 1,738 184,675 | 186,846 | 93,273 11,937,847 | 5,009.16 98,700.10 | .9 46,829.1 |
| MINNESOTA | TOTAL | S | 130,387 | 133,119 | 9,869,334 | 81,955.17 | 51,619.2 |
| | 101742 | NS | 487 | , | 36,592 | 134.45 | 3,,0,5.2 |
| | | 1 140 | | | | | |

TABLE 4.7—Continued SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, BY TYPE OF SERVICE, AND BY STATE AND U.S. AREA 12 MONTHS ENDED DECEMBER 31, 1992

| | 1 | | Aircraft D | epartures | Englaned - | Enplaned Revenue Tons | | |
|-----------------|-----------|---------|--------------------|----------------|-------------------------|-------------------------|---------|--|
| State or County | Operation | Service | Total Performed | Scheduled | Passengers | Freight | Mail | |
| MISSISSIPPI | TOTAL | s | 8,098 | 8,156 | 367,565 | 500.61 | 1,675 | |
| MISSOURI | | S | 239,966 | 244,048 | 13,951,082 | 66,588.05 | 60,783 | |
| | | NS | 1,193 | | 41,504 | 330.66 | 1 | |
| | | AS | 241,159 | 244,048 | 13,992,586 | 66,918.71 | 60,784 | |
| MONTANA | TOTAL | s | 44,952 | 45,707 | 894,754 | 9,245.00 | 3,509 | |
| | } | NS | 12 | | 430 | .45 | | |
| | į | AS | 44,964 | 45 ,707 | 895,184 | 9,245.45 | 3,509 | |
| NEBRASKA | TOTAL | S | 22,617 | 22,745 | 1,231,022 | 7,631.95 | 19,653 | |
| | | NS | 7 | | 290 | | | |
| | 1 | AS | 22,624 | 22,745 | 1,231,312 | 7,631.95 | 19,653 | |
| NEVADA | TOTAL | S | 115,696 | 116,265 | 9,947,287 | 18,417.47 | 16,004 | |
| | ì | NS | 1,536 | | 239,282 | | | |
| | 1 | AS | 117,232 | 116,265 | 10,186,569 | 18,417.47 | 16,004 | |
| EW HAMPSHIRE | TOTAL | S | 7,390 | 7,515 | 280,708 | 9,131.91 | 537 | |
| | ŀ | NS | 27 | | 1,423 | .04 | | |
| | | AS | 7,417 | 7,515 | 282,131 | 9,131.95 | 537 | |
| NEW JERSEY | TOTAL | S | 135,938 | 139,454 | 10,510,594 | 176,722.99 | 41,244 | |
| | i | NS | 1,136 | 100.454 | 122,261 | 321.25 | 44.04 | |
| JEW MENIOS | | AS | 137,074 | 139,454 | 10,632,855 | 177,044.24 | 41,244 | |
| NEW MEXICO | TOTAL | S | 35,773 | 36,005 | 2,505,111 | 10,490.97 | 7,063 | |
| | | NS | 23 | 20.000 | 1,893 | .19 | 7 00 | |
| NEW YORK | TOTAL | AS S | 35,796 | 36,005 | 2,507,004 22,744,908 | 10,491.16 281.748.33 | 7,06 | |
| EW TORK | 101AL | NS | 298,029 | 306,318 | , , , , | | 111,574 | |
| | | AS | 1,867 | 200 210 | 113,889 | 1,080.59 | 444.670 | |
| ORTH CAROLINA | TOTAL | Š | 299,896 | 306,318 | 22,858,797 | 282,828.92 | 111,57 | |
| TOTITI CANCERA | 101AL | NS | 218,859 | 223,162 | 13,923,505 | 70,743.52 | 36,30 | |
| | | AS | 110 218,969 | 223,162 | 4,772 13,928,277 | 100.32 70.843.84 | 36,30 | |
| IORTH DAKOTA | TOTAL | ŝ | 12,724 | 12,785 | 531,711 | 4,488.55 | 1.986 | |
| OHIO | | Š | 207,241 | 210,465 | | 68,918.30 | 52,29 | |
| /NO | j 101AL | NS | 1,916 | 210,400 | 12,150,069 57,000 | 1,434.30 | 32,28 | |
| | 1 | AS | 209,157 | 210,465 | 12,207,069 | 70,352,60 | 52,29 | |
| OKLAHOMA | TOTAL | S | 52,518 | 53,078 | 2,919,971 | 15,931.62 | 10,37 | |
| | | NS | 32,310 70 | 33,076 | 1,767 | 32.32 | 10,376 | |
| | | AS | 52,588 | 53,078 | 2.921.738 | 15.963.94 | 10,378 | |
| DREGON | TOTAL | S | 116,492 | 118,386 | 4,036,354 | 43,861.26 | 13,260 | |
| | 10172 | NS | 66 | 110,000 | 2,676 | 1.11 | 13,20 | |
| | | AS | 116,558 | 118,386 | 4,039,030 | 43.862.37 | 13.27 | |
| PENNSYLVANIA | TOTAL | s | 264,490 | 269,936 | 16,418,439 | 96,551.64 | 83,55 | |
| | 1000 | NŠ | 1,072 | 200,000 | 82,902 | 112.60 | 55,55 | |
| | | AS | 265,562 | 269,936 | 16.501,341 | 96,664,24 | 83.56 | |
| RHODE ISLAND | TOTAL | s | 16,154 | 16,462 | 975,568 | 2,362.53 | 3,95 | |
| | | NS | 14 | , | 1,311 | _, | 0,00 | |
| | | AS | 16,168 | 16,462 | 976,879 | 2,362.53 | 3.95 | |
| SOUTH CAROLINA | TOTAL | S | 27,352 | 27,631 | 1,676,752 | 7,892.82 | 6,29 | |
| | | NS. | 77 | | 3,778 | 1.68 | | |
| | | AS | 27,429 | 27,631 | 1,680,530 | 7,894.50 | 6.29 | |
| OUTH DAKOTA | TOTAL | S | 11,186 | 11,313 | 371,616 | 2,307.61 | 2,22 | |
| | | NS | 10 | · | | 1.26 | • | |
| | 1 | AS | 11,196 | 11,313 | 371,616 | 2,308.87 | 2,22 | |
| ENNESSEE | TOTAL | s | 174,106 | 175,597 | 8,667,107 | 805,222.29 | 29,70 | |
| | | NS | 214 | · | 5,282 | 226.65 | | |
| | į. | AS | 174,320 | 175,597 | 8,672,389 | 805,448.94 | 29,70 | |
| EXAS | TOTAL | S | 629,974 | 636,527 | 48,834,075 | 277,881.35 | 136,49 | |
| | 1 | NS | 765 | | 34,959 | 648.30 | | |
| | | AS | 630,739 | 636,527 | 48,869,034 | 278,529.65 | 136,49 | |
| TTAH | TOTAL | S | 76,462 | 77,233 | 5,656,947 | 43,339.75 | 20,87 | |
| | | NS | 342 | | 46,426 | 10.56 | | |
| | | AS | 76,804 | 77,233 | 5.703,373 | 43,350.31 | 20,87 | |
| /ERMONT | | S | 5,655 | 5,835 | 267,767 | 2,141.47 | 1,11; | |
| /IRGINIA | TOTAL | S | 49,354 | 50,629 | 2,262,666 | 12,200.85 | 9,30 | |
| | | NS | 74 | | 2,330 | 14.42 | | |
| | [| AS | 49,428 | 50,629 | 2,264,996 | 12,215.27 | 9,30 | |
| WASHINGTON | TOTAL | S | 224,652 | 245,639 | 9,628,157 | 134,885.32 | 37,32 | |
| | l | NS | 490 | | 31,981 | 1,268.12 | 40 | |
| | ı | AS | 225,142 | 245,639 | 9,660,138 | 136,153.44 | 37,73 | |
| WEST VIRGINIA | | S | 6,001 | 6,116 | 191,952 | 1,232.38 | 16 | |
| MISCONSIN | TOTAL | S | 76,906 | 78,984 | 3,012,273 | 24,143.05 | 8,07 | |
| | 1 | NS | 450 | | 13,149 | 25.57 | | |
| | i | AS | 77,356 | 78,984 | 3,025,422 | 24,168.62 | 8,076 | |
| MYOMING | TOTAL | S | 6,198 | 6,243 | 168,110 | 1,030.58 | 8 | |
| | 1. | NS | 8 | 1 | 576 | j | | |
| | L L | AS | 6,206 | 6,243 | 168,686 | 1,030.58 | 1 | |

2929.FMT 04/29/93

TABLE 4.7—Continued SUMMARY OF AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, BY TYPE OF SERVICE, AND BY STATE AND U.S.AREA 12 MONTHS ENDED DECEMBER 31, 1992

| | | | Aircraft D | epertures | Enplaned | Enplaned Rev | enue Tons |
|---|-----------|---------------|----------------------------------|---|---|---|---|
| State or County | Operation | Service | Total Performed | | | Freight | Mail |
| TOTAL FOR 50 U. S. STATES | TOTAL | S NS AS | 6,490,954 28,298 6,519,282 | 6,614,112 6,614,112 | 439,680,527 1,864,852 441,545,379 | 4,910,366.29 42,326.33 4,962.682.62 | 1,675,471.06 566.03 1,676,037.00 |
| OTHER U. S. AREAS. | | ~~ | ٠,٠,٠,٠ | 90.4, | 441,040,010 | 4 | 141.04001.00 |
| AMERICAN SAMOA | TOTAL | s | 361 | 359 | 26,387 | 77.76 | 74.93 |
| PALAU ISLANDS | TOTAL | s | 761 | 782 | 41,863 | 1,197,18 | 28.19 |
| GUAM | TOTAL | Š | 8,410 | 8,734 | 925,421 | 19,267.56 | 2,431.82 |
| | 1 | NS | 20 | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 1,769 | .08 | -, |
| | | AS | 8,430 | 8,734 | 927,190 | 19,267.64 | 2,431.82 |
| JOHNSTON ISLAND | TOTAL | S | 249 | 261 | 174 | .76 | 2.06 |
| MARIANA ISLANDS | TOTAL | Š | 6,039 | 6,416 | 375,659 | 5.070.87 | 310.30 |
| | | NS | 9 | -• | 492 | .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | • |
| | 1 | AS | 6,048 | 6,416 | 376,151 | 5.070.87 | 310.30 |
| PUERTO RICO | TOTAL | S | 57,298 | 58,679 | 4,093,709 | 70,724,02 | 3,289.01 |
| | | NS | 227 | 55,5.5 | 19.654 | 3,547.52 | 0,000.0 |
| | 1 | AS | 57,525 | 58,679 | 4,113,363 | 74,271,54 | 3,289.01 |
| U.S. VIRGIN ISLANDS | TOTAL | ŝ | 13,960 | 14.327 | 595,280 | 1,109.53 | 458.18 |
| |] | NS | 3 | - 1,000 | 201 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | |
| | 1 | AS | 13,963 | 14.327 | 595,481 | 1,109,53 | 458.18 |
| TOTAL FOR OTHER U. S. AREAS | TOTAL | 8 | 87,000 | 89,558 | 6.068.493 | 97,447.68 | 6,594,49 |
| | 1 | NS | 260 | | 22,116 | 3,547.60 | -, |
| | ł | AS | 87,357 | 89.556 | 6.080.600 | 100.995.28 | 6,594.40 |
| OVERALL TOTAL FOR ALL STATES, AND OTHER U.S. AREAS. | TOTAL | 8 | 6,578,062 | 6,703,670 | 445,739,020 | 5,007,803.97 | 1,682,065.55 |
| * ** * ***** * **** * * |) | NS | 28,557 | | 1,886,968 | 45,873.93 | 566.03 |
| |] | AS | 6,606,609 | 6,703,670 | 447.625.988 | 5,053,577.90 | 1,682,631,58 |

TABLE 4.8 AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT LARGE AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircraft D | epertures | Englaned | Enplaned Rev | enue Tons |
|--|--------------|--------------------|--------------------|--------------------------|--------------------------|---------------------------------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Passengers | Freight | Mail |
| ATLANTA, GEORGIA | | | | | | |
| (FULTON COUNTY) | 0.00 | 50 | 50 | | 7.92 | |
| (WILLIAM B HARTSFIELD INT'L) | 4.39 | 216,782 | 217,250 | 19,659,882 | 158,071.64 | 101,559.7 |
| COMMUNITY TOTAL | 4.39 | 216,832 | 217,300 | 19,659,882 | 158,079.56 | 101,559.7 |
| BOSTON, MASSACHUSETTS | | | | | | |
| (LOGAN INTERNATIONAL) | 2.03 | 110,514 | 112,912 | 9,087,607 | 119,184.48 | 33,185.9 |
| CHARLOTTE, NORTH CAROLINA | | | | | | |
| (DO::GLAS MUNI) | 1.84 | 128,019 | 130,903 | 8,220,185 | 39,762.72 | 23,204.3 |
| CHICAGO, ILLINOIS | | | | | | |
| (MEIGS FIELD) | 0.00 | 1,048 | 1,216 | 6,964 | | |
| (MIDWAY) | 0.44 | 30,827 | 31,460 | 1,971,557 | 2,252.04 | 27.0 |
| (O'HARE INTERNATIONAL) | 6.40 6.85 | 378,153 410,028 | 386,291 418,967 | 28,666,774 30,645,315 | 309,414.94 311,666.98 | 142,132.3 142,159.3 |
| | | | | | | |
| CINCINNATI, OHIO (GREATER CINCINNATI) | 1.10 | 73,089 | 73,700 | 4,903,127 | 21,095.65 | 21,801.1 |
| (GREATER CHOMMATI) | 1.10 | 73,069 | 73,700 | 4,903,127 | 21,080.00 | 21,801.1 |
| DALLAS/FT.WORTH, TEXAS | | | | | | |
| (DALLAS/FT.WORTH INTL) | 5.46 | 280,846 | 282,953 | 24,427,582 | 151,949.85 | 96,669.9 |
| (LOVE FIELD) | 0.66 | 42,649 | 43,526 | 2,942,967 | 2,491.89 | 643.0 |
| COMMUNITY TOTAL | 0.00 6.11 | 323,498 | 3 326,482 | 27,370,549 | 154,441.74 | 97,312.9 |
| | | | | | | |
| DENVER, COLORADO | | | | | | |
| (STAPLETON INTERNATIONAL) | 3.00 | 160,990 | 163,076 | 13,426,038 | 79,128.51 | 42,181.5 |
| DETROIT, MICHIGAN | | | | | | |
| (DETROIT CITY) | 0.06 | 3,703 | 3,769 | 284,071 | 242.71 | |
| (WAYNE COUNTY) | | 136,589 | 138,650 | 10,124,448 | 57,871.61 | 40,071.4 |
| (WILLOW RUN) | 0.00 2.33 | 3,629 143,921 | 2,852 145,271 | 10,408,519 | 34,130.43 92,244.75 | 1,235.7 41,307.2 |
| | | | | - | | |
| ONOLULU, OAHU, HAWAII (HICKAM AFB) | 0.00 | | | | .26 | |
| (HONOLULU INTERNATIONAL) | 1.95 | 90,410 | 91,501 | 8,740,091 | 112,841.98 | 21,419.2 |
| COMMUNITY TOTAL | 1.95 | 90,411 | 91,501 | 8,740,091 | 112,842.24 | 21,419.2 |
| IOLISTON, TEXAS | | | | | | |
| (ELLINGTON FIELD) | 0.00 | 245 | 239 | | 2,066.95 | |
| (HOUSTON INTERCONTINENTAL) | 1.86 | 106,927 | 107,748 | 8,308,479 | 70,456.35 | 21,002.2 |
| (WILLIAM P HOBBY) | 0.89 | 59,603 | 60,591 | 4,001,769 | 4,946.39 | 734.2 |
| COMMUNITY TOTAL | 2.75 | 166,775 | 168,578 | 12,310,248 | 77,469.69 | 21,736.4 |
| AS VEGAS, NEVADA | | | | | | |
| (MC CARRAN INTL) | 1.88 | 91,485 | 90,367 | 8,435,624 | 12,798.45 | 13,560.1 |
| OS ANGELES/BURBNK/LNG.BCH, CAL | | | | | | |
| (HOLLYWOOD-BURBANK) | 0.42 | 24,192 | 24,311 | 1,861,872 | 6,831.18 | 2,313,1 |
| (LONG BEACH) | 0.09 | 6,663 | 6,701 | 400,067 | 12,068.84 | 831.3 |
| (LOS ANGELES INTERNATIONAL) | 4.09 | 195,680 | 197,184 | 18,304,896 | 361,454.56 | 68,353.1 |
| (ORANGE COUNTY) | 0.59 | 33,081 | 33,529 | 2,637,841 | 2,202.86 | 79.6 |
| COMMUNITY TOTAL | 5.18 | 259,616 | 261,725 | 23,204,476 | 382,557.44 | 71,577.4 |
| | | 1 | | | | |
| | | ł | | | 1 | |
| MAMI/FT LAUDERDALE, FLORIDA (FT LAUDERDALE-HOLLYWOOD INTL) | 0.77 | 37,820 | 37,546 | 3,437,643 | 41,781.76 | 8,049.7 |
| MAMI/FT LAUDERDALE, FLORIDA (FT LAUDERDALE-HOLLYWOOD INTL) (MIAMI INTERNATIONAL) | 2.01 | 99,762 | 37,546 99,920 | 3,437,643 8,980,826 | 184,075.94 | |
| MAMI/FT LAUDERDALE, FLORIDA (FT LAUDERDALE-HOLLYWOOD INTL) | | | | | | 8,049.7 23,727.7 31.777.4 |

TABLE 4.8—Continued AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT LARGE AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircraft D | epartures | Englaned | Enplaned Re | venue Tons |
|---|------------------------------|------------------------------------|------------------------------------|---------------------------------------|---|----------------------------------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Passengers | Freight | Mail |
| MINNEAPOLIS/ST. PAUL, MINNESOTA (MINNEAPOLIS-ST PAUL INTL) | 2.15 | 125,214 | 126,803 | 9,640,278 | 81,571.76 | 51,613.0 |
| NEWARK, NEW JERSEY (NEWARK) | 2.33 | 134,304 | 136,692 | 10,442,112 | 176,991.22 | 41,244.5 |
| NEW YORK, NEW YORK (JOHN F KENNEDY INTL) (LA GUARDIA) (WEST 30TH ST HELIPRT) COMMUNITY TOTAL | 1.86 2.08 0.00 3.92 | 69,545 121,128 52 190,725 | 70,067 125,188 52 195,307 | 8,347,648 9,206,582 17,554,230 | 221,091.26 23,585.12 8.67 244,685.05 | 58,660.2 37,010.2 95,670.4 |
| ORLANDO, FLORIDA (ORLANDO INTERNATIONAL) | 1.91 | 96,668 | 96,156 | 8,535,628 | 32,686.44 | 13,123.7 |
| PHILADELPHIA.PA/CAMDEN, NJ (PHILADELPHIA INTL) | 1.53 | 97,439 | 98,835 | 6,827,030 | 53,345.28 | 49,688.4 |
| PHOENIX, ARIZONA (PHOENIX SKY HARBOR INTL) | 2.39 | 143,816 | 144,758 | 10,713,112 | 45,549.02 | 26,238.4 |
| PITTSBURGH, PA/WHEELING, W VA (GREATER PITTSBURGH) | 1.91 | 140,158 | 142,632 | 8,557,030 | 29,397.10 | 30,664.4 |
| ST. LOUIS, MISSOURI (LAMBERT-ST LOUIS MUNI) (SPIRIT OF ST. LOUIS) COMMUNITY TOTAL | | 177,557 3 177,560 | 180,199 180,199 | 10,299,655 10,299,655 | 50,548.94 .04 50,548.98 | 40,254.7 40,254.7 |
| SALT LAKE CITY, UTAH (SALT LAKE CITY INTL) | 1.27 | 76,362 | 76,794 | 5,703,273 | 43,236.84 | 20,871.1 |
| BAN DIEGO, CALIFORNIA (BROWN FIELD MUNICIPAL) (MONTGOMERY FIELD) (SAN DIEGO INTL-LINDBERGH) COMMUNITY TOTAL | 0.00 0.00 1.26 1.26 | 10 1 69,867 69,878 | 1 70,462 70,463 | 5,631,471 5,631,471 | .64 1.13 19,796.82 19,798.59 | 1.4 8,390.0 8,391.4 |
| BAN FRANCISCO/GAKLAND, CAL (CAKLAND METROPOLITAN INTL) (SAN FRANCISCO INTL) COMMUNITY TOTAL | 0.67 3.17 3.84 | 46,689 169,491 216,180 | 46,866 171,720 218,586 | 3,009,394 14,192,658 17,202,052 | 103,735.02 204,656.96 308,391.98 | 4,101.7 63,202.1 67,303.8 |
| BEATTLE/TACOMA, WASHINGTON (BOEING FIELD INTL.) (SEATTLE-TACOMA INTERNATIONAL) COMMUNITY TOTAL | 0.00 1.87 1.87 | 27 144,780 144,807 | 6 163,430 163,436 | 807 8,355,011 8,355,818 | 6.90 124,630.01 124,636.91 | 3.1 34,545.7 34,548.8 |
| WASHINGTON, DIST. OF COL. (DULLES INTERNATIONAL) (WASHINGTON NATIONAL) COMMUNITY TOTAL | 1.00 1.52 2.52 | 60,051 92,273 152,324 | 60,926 94,490 155,416 | 4,464,895 6,825,376 11,290,271 | 61,606.88 8,200.56 69,807.44 | 29,593.8 29,555.4 59,149.2 |
| OVER-ALL TOTAL, LARGE HUBS | 71.30 | 4,078,211 | 4,144,325 | 319,582,090 | 3,067,777.94 | 1,201,546.4 |

TABLE 4.9 AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT MEDIUM AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircraft D | aber m. 42 | Englaned | Enplaned Revenue Tons | |
|---|----------------------|--------------------|------------------|------------------------|------------------------------|------------------------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Pas- sengers | Freight | Express |
| ALBUQUERQUE, NEW MEXICO (ALBUQUERQUE INTL) | 0.56 | 34,105 | 34,318 | 2,506,884 | 9,964.91 | 7,063.17 |
| ANCHORAGE, ALASKA | | | | | | |
| (ANCHORAGE INTERNATIONAL) | 0.30 | 36,929 | 36,098 | 1,363,849 | 289,192.80 | 58,485.75 |
| (ELMENDORF AFB) COMMUNITY TOTAL | 0.00 0.30 | 36,930 | 36,098 | 1,363,849 | 289,192.80 | 58,485.7 |
| AUSTIN, TEXAS | | | *** | | | 0.005.0 |
| (ROBERT MUELLER MUNI) | 0.48 | 32,304 | 32,616 | 2,127,563 | 11,036.91 | 3,865.6 |
| BALTIMORE, MARYLAND (BALTO/WASH INTL) | 0.81 | 54,919 | 55,615 | 3,614,491 | 13,654.98 | 20,391.20 |
| BUFFALO & MAGARA FALLS, NEW YORK (GREATER BUFFALO INTERNATIONAL) | 0.33 | 28,130 | 28,249 | 1,484,181 | 6,573.24 | 4,233.45 |
| CLEVELAND, OHIO (HOPKINS INTERNATIONAL) | 0.84 | 63.649 | 64,170 | 3,740,901 | 23,119.36 | 11,628.00 |
| (| | 00,010 | 04,170 | 0,740,007 | 25,110.00 | 11,020.0 |
| CLOCKBOURNE AFB) | 0.00 | 1,797 | 1,683 | | 7,605.51 | |
| (PORT COLUMBUS INTERNATIONAL) COMMUNITY TOTAL | 0.49 0.49 | 38,638 40,435 | 39,145 40,828 | 2,201,054 2,201,054 | 6,258.42 13,863.93 | 14,746.64 14,746.64 |
| N RAGO TEVAS | | | | | | |
| EL PASO, TEXAS (EL PASO INTERNATIONAL) | 0.38 | 27,274 | 27,369 | 1,700,549 | 5,996.48 | 1,926.8 |
| FORT MYERS, FLORIDA (PAGE FIELD) | 0.00 | | | | .09 | |
| (SOUTHWEST) | 0.35 0.35 | 20,022 20,023 | 20,117 20,118 | 1,584,414 1,584,414 | 2,333.98 2,334.07 | 2,315.2 2,315.2 |
| HARTFORD/SPRINGFLD/WESTFLD, CT (BRADLEY INTERNATIONAL) | 0.48 | 30,126 | 30,314 | 2,131,225 | 15,852,43 | 14,726.7 |
| · · | | | | | | |
| NDIANAPOLIS, INDIANA (INDIANAPOLIS INTERNATIONAL) | 0.63 | 55,625 | 55,231 | 2,803,504 | 143,498.45 | 10,229.90 |
| JACKBONVILLE, PLORIDA | | | j | | | |
| (CECIL FIELD NAS) (JACKSONVILLE INTERNATIONAL) COMMUNITY TOTAL | 0.00 0.26 0.26 | 19,698 19,701 | 19,876 19,876 | 1,179,087 1,179,087 | 6.16 9,072.17 9,078.33 | 7,440.60 7,440.60 |
| CAMULUI, MAUI, HAWAN | | | | | | |
| (KAHULUI) | 0.52 | 31,696 | 33,063 | 2,318,505 | 11,265.08 | 1,775.4 |
| CANBAS CITY, MISSOURI | 0.78 | 52,416 | 52,352 | 3,482.243 | 15 245 40 | 20,524.5 |
| (KANSAS CITY INTL) (KANSAS CITY MUNI) | 0.00 | 2 | 1 | 91 | 15,345.40 | |
| COMMUNITY TOTAL | 0.78 | 52,418 | 52,352 | 3,482,334 | 15,345.40 | 20,524.5 |
| MEMPHIS, TENNESSEE (MEMPHIS INTERNATIONAL) | 0.74 | 88,184 | 88,685 | 3,329,210 | 781,828.03 | 15,435.1 |
| IIII. WAUKEE, WISCONSIN | | | | | | |
| | 0.43 | 40,607 | 40,948 | 1,938,384 | 17,344.97 | 7,172.50 |
| (GENERAL MITCHELL FIELD) | | 10,007 | 70,510 | 1,830,304 | 17,344.87 | .,,,, |

TABLE 4.9—Continued AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT MEDIUM AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircreft C | epertures | Englaned | Enplaned Rev | renue Tons |
|---|---------------|-----------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|
| Community (Airport Name) | Enplenements | Total Performed | Scheduled | Pas- sengers | Freight | Express |
| NEW ORLEANS, LOUISIANA (NEW ORLEANS INTL) | 0.72 | 41,739 | 42,054 | 3,231,972 | 14,996.54 | 6,596.8 |
| OKLAHOMA CITY, OKLAHOMA | ł | | | i | | |
| (TINKER AFB) (WILL ROGERS WORLD) COMMUNITY TOTAL | 0.34 | 25,907 25,908 | 26,099 26,100 | 1,511,053 1,511,053 | 11.00 7,022.87 7,033.87 | 4,969.4 4,969.4 |
| ONTARIO/SAN BERNARD/RIVERSE,CA | | | | | | |
| (MARCH AFB) (ONTARIO INTERNATIONAL) COMMUNITY TOTAL | 0.66 | 1 41,493 41,494 | 2 41,741 41,743 | 2,965,837 2,965,937 | 1.21 11,078.59 11,079.80 | 11,955.3 11,955.3 |
| | V.60 | | 41,743 | 2,900,337 | 11,079.60 | 11,500.3 |
| PORTLAND, OREGON (PORTLAND INTERNATIONAL) | 0.78 | 83,794 | 84,948 | 3,500,423 | 41,431.89 | 12,035.8 |
| RALEIGH/DURHAM, NORTH CAROLINA (RALEIGH-DURHAM) | 0.98 | 60,835 | 61,530 | 4,376,097 | 16,007.79 | 9,695.5 |
| RENO, NEVADA (RENO INTL) | 0.37 | 24,960 | 26,121 | 1,674,708 | 5,617.83 | 2,444.7 |
| SACRAMENTO, CALIFORNIA (SACRAMENTO METROPOLITAN) | 0.56 | 40,138 | 40,513 | 2,485,878 | 9,370.33 | 8,532.0 |
| SAN ANTONIO, TEXAS (SAN ANTONIO INTERNATIONAL) | 0.59 | 36,450 | 36,716 | 2,638,589 | 12,297.79 | 8,591.2 |
| SAN JOSE, CALIFORMA (SAN JOSE MUNI) | 0.69 | 41,625 | 42,079 | 3,091,997 | 24,343.93 | 5,057.8 |
| SAN JUAN, PUERTO RICO (LUIS MUNOZ MARIN INTL) | 0.88 | 50,625 | 51,520 | 3,948,210 | 68,758.35 | ,288.8 |
| TAMPA & ST.PTBBG/CLWTR & LKLND,FLA (ST. PETERSBURG/CLWTR INTL) | | 385 | 327 | 44,645 | | |
| (TAMPA INTERNATIONAL) | 0.98 | 57,466 57,851 | 57, 983 58,290 | 4,378,851 4,423,496 | 25,665.53 25,665.53 | 20,253.7 20,253.7 |
| TUCSON, ARIZONA (TUCSON INTL) | 0.27 | 18,212 | 18,360 | 1,209,173 | 3,925.51 | 2,878.3 |
| TULSA, OKLAHOMA (TULSA INTL) | 0.31 | 26,613 | 28,909 | 1,409,347 | 8,928.93 | 5,409,4 |
| WEST PALM BEACH/PALM BEACHFLA | | | 30,000 | ., | 3,000.00 | |
| (PALM BEACH INTERNATIONAL) OVER-ALL TOTAL, MEDIUM HUBS | 0.53 18.05 | 26,652 1,301,977 | 26,963 1,312,257 | 2,366,819 80,800,966 | 2,904.02 1,633,136.05 | 5,134.90 321,05 1.17 |

TABLE 4.10 AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| A | % of | Aircraft D | epartures | Enplaned | Enplaned Rev | enue Tons |
|---|--------------|--------------------|-----------|-----------------|-------------------|-----------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Pas- sengers | Freight | Mail |
| ALBANY, NEW YORK | | † | | | | |
| (ALBANY COUNTY) | 0.18 | 14,704 | 14,943 | 786,060 | 2,450.23 | 3,066.9 |
| ALLENTOWN/BETHLEHEM/EASTON, PA | | | | | | |
| (ALLENTOWN-BETHLEHEM-EASTON) | | 7,820 | 7,958 | 349,951 | 2,571.11 | 663.0 |
| AMARILLO/BORGER, TEXAS | | ŀ | | | | |
| (AMARILLO AIR TERMINAL) | 0.09 | 6,091 | 6,147 | 411,780 | 309.30 | 803.7 |
| BATON ROUGE, LOUISIANA | | | ļ | | l I | |
| (RYAN) | 0.09 | 8,314 | 8,422 | 423,313 | 435.70 | 1,981.7 |
| BILLINGS, MONTANA | | | ļ | | | |
| (LOGAN FIELD) | 0.06 | 9,886 | 9,996 | 285,378 | 547.59 | 1,793.3 |
| BIRMINGHAM, ALABAMA | ļ | } | | | | |
| (BIRMINGHAM MUNI) | 0.21 | 18,453 | 18,577 | 958,539 | 6,003.52 | 5,755.0 |
| BOISE, IDAHO | j | ļ | ! | | | |
| (BOISE AIR TERMINAL/GOWEN FLD) | 0.13 | 19,185 | 19,431 | 589,620 | 3,713.31 | 2,275.14 |
| BROWNSVILLE/HRLGN/SAN BNTO, TEX | | } |] | | | |
| (HARLINGEN INDUSTRIAL AIRPARK) (SOUTH PADRE ISLAND INTL) | 0.11 | 7,094 | 7,143 | 500,470 | 6,407.21 | 6.2 |
| COMMUNITY TOTAL | | 7,109 | 7,148 | 500,470 | 29.11 6,436.32 | 6.2 |
| | | | | | | |
| BURLINGTON, VERMONT (BURLINGTON INTERNATIONAL) | 0.06 | 5,390 | 5,570 | 267,767 | 1,999.46 | 1,112.1 |
| | | | | | | |
| CEDAR RAPIDS /IOWA CITY, IOWA (CEDAR RAPIDS MUNI) | 0.08 | 10,373 | 10.704 | 378,403 | 9,606.99 | 3,349.6 |
| , , , , , , , , , , , , , , , , , , , | | | | | | |
| CHARLESTON, SOUTH CAROLINA (CHARLESTON AFB/MUNI) | 0.13 | 9,629 | 9,659 | 592,408 | 2,154,33 | 901.0 |
| | | 1 | 0,000 | | 4,104,00 | |
| CHARLOTTE AMALIE,ST. THOMAS, VI (HARRY S.TRUMAN) | 0.10 | 8,882 | 9,065 | 448,395 | 719.61 | 343.4 |
| | | | 9,555 | V10,000 | 7 (0.5) | |
| COLORADO SPRINGS, COLORADO (PETERSON FIELD) | 0.16 | 11,285 | 11,440 | 696,777 | 394.94 | 1,339.6 |
| (FETEROOT FIELD) | 0.10 | 11,200 | 11,440 | 090,777 | 35.5 | 1,339.0 |
| COLUMBIA, SOUTH CAROLINA (COLUMBIA METROPOLITAN) | 0.00 | | 0.470 | 450.050 | 4 007 10 | 0.000.4 |
| (COLUMBIA METHOPOLITAN) | 0.10 | 8,419 | 8,478 | 452,350 | 4,827.10 | 2,606.4 |
| CORPUS CHRISTI, TEXAS | | 7,000 | 7,544 | 474 50: | 242.55 | |
| (CORPUS CHRISTI INTERNATIONAL) | 0.11 | 7,429 | 7,518 | 474,504 | 319.26 | 619.1 |
| DAYTON, OHIO | | | | | 44 | |
| (JAMES M COX/DAYTON INTL) | 0.21 | 18,620 | 18,903 | 933,753 | 11,623.57 | 3,305.16 |
| DAYTONA BEACH, FLORIDA | | | | | | |
| (DAYTONA BEACH REGIONAL) | 0.09 | 6,540 | 6,582 | 414,790 | 422.99 | 7.6 |
| DES MOINES, IOWA | | | | | | |
| (DES MOINES MUNI) | 0.15 | 10,956 | 11,048 | 677,807 | 3,512.71 | 10,539.5 |

TABLE 4.10—Continued AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| . | % of | Aircraft D | epartures | Enplaned | Enplaned Rev | enue Tons |
|--|--------------|--------------------|-----------|-----------------|------------------|-----------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Pas- sengers | Freight | Mail |
| EUGENE, OREGON | | | | | | |
| (MAHLON SWEET FIELD) | 0.06 | 11,357 | 11,579 | 277,504 | 835.94 | 746.15 |
| FAIRBANKS, ALASKA | 1 | | | | | |
| (FAIRBANKS INTERNATIONAL) | 0.06 | 7,295 | 7,091 | 262,709 | 4,322.76 | 7,573.04 |
| FORT WAYNE, INDIANA | | ļ | | i | | |
| (MUNICIPAL/BAER FIELD) | 0.05 | 8,555 | 8,798 | 243,065 | 1,323.77 | 1,359.11 |
| EDEONO CALIFORNIA | | } | | ļ | | |
| FRESNO, CALIFORNIA (FRESNO AIR TERMINAL) | 0.07 | 15,892 | 16,239 | 330,674 | 1,206.34 | 1,036.56 |
| (FRESNO CHANDLER) | 0.00 | 15,893 | 16,240 | 330,674 | 1.33 1,207.67 | 1,036.56 |
| | | | | | | |
| GRAND RAPIDS, MICHIGAN | | | | | | |
| (KENT COUNTY) | 0.14 | 12,182 | 12,340 | 622,850 | 4,948.36 | 3,883.74 |
| GREEN BAY/CLINTONVILLE, WIS. | | } | | | | |
| (AUSTIN-STRAUBEL FIELD) | 0.06 | 9,851 | 10,177 | 254,281 | 125.59 | 46.40 |
| GREENSBORO / HIGH PT / WINSTN.N.C. | | j | | | | |
| (GREENSBORO-HIGH PT-WINSTN REG.) | 0.19 | 20,748 | 21,163 | 848,948 | 13,617.21 | 3,338.96 |
| ORMENAN I F (OR ARTA MOURA) GO | ļ | ļ | | | | |
| GREENVILLE/SPARTANBURG, SC (GREENVILLE/SPARTANBURG) | 0.09 | 6,792 | 6,879 | 423,578 | 609.58 | 2,789.61 |
| | | | | | | |
| GUAM, GUAM (AGANA FIELD) | 0.21 | 8,428 | 8,734 | 927,190 | 19,267.48 | 2,431.82 |
| (ANDERSON AFB) | 0.00 | 8,430 | 8,734 | 927,190 | .16 19,267.64 | 2,431.82 |
| | | | | | | |
| HARRISBURG/YORK, PA. | | | | | | |
| (HARRISBURG INTERNATIONAL) | 0.12 | 12,602 | 12,861 | 515,660 | 8,528.89 | 2,519.85 |
| HILO, HAWAII, HAWAII | | | | | | |
| (GENERAL LYMAN FIELD) | 0.16 | 12,065 | 12,042 | 703,736 | 4,325.17 | 1,120.59 |
| HUNTSVILLE, ALABAMA | | | | | | |
| (MADISON COUNTY) | 0.09 | 9,617 | 9,770 | 407,079 | 672.90 | 625.05 |
| INDIO/PALM SPRINGS, CALIFORNIA | <u> </u> | | | | | |
| (PALM SPRINGS MUNI) | 0.07 | 8,185 | 8,300 | 312,769 | 110.60 | 3.91 |
| IOI IO I OMO IOI AMO NEW YORK | | | | | | |
| ISLIP, LONG ISLAND, NEW YORK (LONG ISLAND-MACARTHUR) | 0.08 | 4,774 | 4,886 | 375,254 | 234.47 | 1,263.69 |
| | | | | | | |
| JACKSON-VICKSBURG, MISS. (ALLEN C THOMPSON FIELD) | 0.08 | 7,841 | 7,900 | 367,540 | 272.83 | 1,675.41 |
| | | | | | | |
| JUNEAU, ALASKA (II BUFAI I MI INII) | 0.05 | 5,134 | 5,246 | 234,393 | 4,161.46 | 1,501.51 |
| (JUNEAU MUNI) | 0.03 | 3,134 | 3,240 | 204,000 | 7,101.40 | 1,501.5 |

TABLE 4.10—Continued AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircraft C | epartures | Enplaned | Enplaned Rev | enue Tons |
|---|--------------|------------------------|------------------|------------------------|------------------------------|----------------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Pas- sengers | Freight | Mail |
| KAILUA-KONA, HAWAII, HAWAII (KE-AHOLE) | 0.23 | 16,462 | 16,697 | 1,021,356 | 6,838.56 | 1,003. |
| KNOXVILLE, TENNESSEE (MC GHEE TYSON) | 0.12 | 10,411 | 10,502 | 534,998 | 11,159.14 | 1,506. |
| Ansing, Michigan (Capital City) | 0.05 | 7,158 | 7,323 | 234,357 | 95.29 | 641. |
| EXINGTON/FRANKFORT, KENTUCKY | | | | | | |
| (BLUE GRASS) | 0.07 | 8,932 | 9,028 | 310,419 | 374.90 | 1,135 |
| IHUE, KAUAI, HAWAII (LIHUE) | 0.25 | 16,696 | 17,933 | 1,111,530 | 949.25 | 798 |
| JITTLE ROCK, ARKANSAS (ADAMS FIELD) | 0.22 | 16,622 | 16,785 | 995,424 | 947.39 | 4,230 |
| OUISVILLE, KENTUCKY (STANDIFORD FIELD) | 0.22 | 20,698 | 20,820 | 963,178 | 7,891.18 | 6,309 |
| .UBBOCK, TEXAS (LUBBOCK INTL) | 0.13 | 10,858 | 10,933 | 563,333 | 8,035.09 | 582 |
| MADISON, WISCONSIN (TRUAX FIELD) | 0.12 | 13,662 | 14,127 | 524,474 | 3,262.06 | 812 |
| MANCHESTER/CONCORD,N.HAMPSHIRE (MUNICIPAL) | 0.06 | 7,391 | 7,489 | 282,131 | 9,126.20 | 537 |
| MELBOURNE, FLORIDA (CAPE KENNEDY REGIONAL) | | 4,845 | 4,887 | 315,398 | 231.73 | |
| MIDLAND/ODESSA, TEXAS | | ,,,,,,,,, | ,,,,,, | | | |
| (MIDLAND/ODESSA REGL) | 0.11 | 7,719 | 7,769 | 506,780 | 626.68 | 418 |
| IISSION / INCALLEN / EDINBURG, TEXAS (MILLER INTERNATIONAL) | 0.06 | 3,339 | 3,365 | 253,346 | 808.97 | 632 |
| MOBILE, AL/PASCAGOULA, MISS (BATES FIELD) | 0.07 | 8,572 | 8,661 | 320,819 | 5,682.81 | 477 |
| AOLINE, ILLINOIS (QUAD-CITY) | 0.07 | 10,468 | 10,776 | 296,521 | 217.12 | 530 |
| NEWBURGH, NEW YORK (STEWART) | 0.07 | 5,165 | 5,177 | 325,112 | 6,409.60 | 898 |
| ORFLK/VA BCH/PTSMH/CHESPKE, VA | | | | | | |
| (CHAMBERS NAS) (NORFOLK REGIONAL) COMMUNITY TOTAL | 0.25 | 10 21,637 21,647 | 22,077 22,077 | 1,116,618 1,116,618 | 4.16 4,997.18 5,001.34 | 4,578 4,578 |
| MAHA, NEBRASKA (EPPLEY AIRFIELD) | 0.23 | 17,167 | 17,221 | 1,038,245 | 7,001.53 | 18,567 |
| ENSACOLA, FLORIDA (PENSACOLA REGIONAL) | 0.09 | 8,740 | 8,911 | 390,369 | 487.20 | 1,130 |
| ORTLAND, MAINE (PORTLAND INTERNATIONAL JETPORT) | | 8,171 | 8.331 | 447,248 | 3,805.44 | 1,030 |

TABLE 4.10—Continued AIRCRAFT DEPARTURES, ENPLANED REVENUE PASSENGERS, AND ENPLANED REVENUE TONS OF CARGO AND MAIL IN TOTAL OPERATIONS, ALL SERVICES AT SMALL AIR TRAFFIC HUBS 12 MONTHS ENDED DECEMBER 31, 1992

| | % of | Aircraft D | epartures | Enplaned | Enplaned Rev | enue Tons |
|---|--------------|--------------------|---------------------------|------------------------------|-------------------------------|--------------------------------|
| Community (Airport Name) | Enplanements | Total Performed | Scheduled | Pas- sengers | Freight | Mail |
| PROVIDENCE, RHODE ISLAND (THEODORE FRANCIS GREEN STATE) | 0.22 | 16,168 | 16,462 | 976,879 | 2,362.53 | 3,957.56 |
| RICHMOND, VIRGINIA (RICHARD E BYRD FLYING FIELD) | 0.20 | 18,991 | 19,363 | 882,368 | 7,079.91 | 4,127.96 |
| ROCHESTER, NEW YORK (ROCHESTER-MONROE COUNTY) | 0.23 | 23,249 | 23,688 | 1,018,125 | 9,070.86 | 2,727.83 |
| SAGINAW/BAY CITY/MIDLAND, MICH (TRI CITY) | 0.05 | 3,820 | 3,853 | 231,478 | 608.11 | 553.23 |
| SAIPAN, MARIANA ISLANDS (SAIPAN INTERNATIONAL) | 0.06 | 4,957 | 5,136 | 359,721 | 4,955.16 | 304.67 |
| SARASOTA/BRADENTON, FLORIDA (SARASOTA-BRADENTON) | 0.19 | 11,517 | 11,616 | 840,157 | 525.63 | 7.53 |
| SAVANNAH, GEORGIA (SAVANNAH INTL) | 0.11 | 9,310 | 9,427 | 480,296 | 1,597.91 | 395.00 |
| SHREVEPORT, LOUISIANA (SHREVEPORT REGIONAL) | 0.05 | 6,571 | 6,549 | 224,223 | 5,765.29 | 1,595.92 |
| SIOUX FALLS, SOUTH DAKOTA (JOE FOSS FIELD) | 0.06 | 6,956 | 7,049 | 257,834 | 1,337.37 | 1,767.96 |
| SOUTH BEND, INDIANA (MICHIANA REGIONAL) | 0.08 | 11,927 | 12,364 | 356,377 | 1,949.57 | 1,270.15 |
| SPOKANE, WASHINGTON (SPOKANE INTERNATIONAL) | 0.20 | 32,549 | 32,951 | 875,361 | 9,447.64 | 2,683.45 |
| SYRACUSE, NEW YORK (CLARENCE E HANCOCK) | 0.21 | 23,356 | 23,887 | 918,602 | 11,920.72 | 3,709.32 |
| TALLAHASSEE, FLORIDA (TALLAHASSEE MUNI) | 0.08 | 7,567 | 7,680 | 338,478 | 1,463.15 | 652.02 |
| TOLEDO, OHIO (TOLEDO EXPRESS) | 0.05 | 7,072 | 6,359 | 244,646 | 567.79 | 181.00 |
| WICHTA, KANSAS (MID-CONTINENT) OVER-ALL TOTAL, SMALL HUBS | 0.13 8.24 | 12,410 771,529 | 12,494 783,30 5 | 572,136 36,879,632 | 7,403.05 267,619.05 | 2,772.20 1 44,917.53 |

TABLE 4.11 TOP 160 AIRPORTS IN RANK ORDER BY TOTAL ENPLANED PASSENGERS LARGE SCHEDULED CERTIFICATED AIR CARRIERS SCHEDULED AND NON SCHEDULED OPERATIONS 1992

| Rank | Airport | Total Enplaned Passengers | Rank | Airport | Total Enplaned Passengers |
|----------|---------------------------------|------------------------------|------|----------------------------------|------------------------------|
| 1 | Chicago (O'Hare), IL | 28,666,774 | 51 | Kahului, Maui, HI | 2,318,505 |
| 2 | Dallas/Ft. Worth (Regional), TX | 24,427,582 | 52 | Columbus, OH | 2,201,054 |
| 3 | Atlanta, GA | 19,659,882 | 53 | Hartford, CT | 2,131,225 |
| 4 | Los Angeles, CA | 18,304,696 | 54 | Austin, TX | 2,127,563 |
| 5 | San Francisco, CA | 14,192,658 | 55 | Chicago (Midway), IL | 1,971,557 |
| 6 | Denver, CO | 13,426,038 | 56 | Milwaukee, WI | 1,938,384 |
| 7 | Phoenix, AZ | 10,713,112 | 57 | Burbank, CA | 1,861,872 |
| 8 | Newark, NJ | 10,442,112 | 58 | El Paso, TX | 1,700,549 |
| 9 | St. Louis, MO | 10,299,655 | 59 | Reno. NV | 1,674,708 |
| 10 | Detroit, MI | 10,124,448 | 60 | Ft. Myers, FL | 1,584,414 |
| 11 | Minneapolis/St. Paul, MN | 9,640,278 | 61 | Okalahoma City, OK | 1,511,053 |
| 12 | New York (La Guardia), NY | 9,206,582 | 62 | Buffaio, NY | 1,484,181 |
| 13 | Boston, MA | 9,087,607 | 63 | Tulsa, OK | 1,409,347 |
| 14 | Miami, FL | 8,980,826 | 64 | Anchorage, AK | 1,363,849 |
| 15 | Honolulu, Oahu, HI | 8,740,091 | 65 | Tucson, AZ | 1,209,173 |
| 16 | Pittsburgh, PA | 8,557,030 | 66 | Jacksonville, FL | 1,179,087 |
| 17 | Orlando, FL | 8,535,628 | 67 | Norfolk, VA | 1,116,618 |
| 18 | Las Vegas, NV | 8,435,624 | 68 | Lihue, Kauai, HI | 1,111,530 |
| 19 | Seattle-Tacoma, WA | 8,355,011 | 69 | Omaha, NE | 1,038,245 |
| 20 | New York (John F. Kennedy), NY | | 70 | Kailua-Kona, Hawaii, HI | 1,021,356 |
| | 1 | 8,347,648 | | Rochester, NY | · · |
| 21 22 | Houston (Intercontinental), TX | 8,308,479 | 71 | Little Rock, AR | 1,018,125 |
| | 1 | 8,220,185 | 72 | | 995,424 |
| 23 | Philadelphia, PA | 6,827,030 | 73 | Providence, RI | 976,879 |
| 24 | Washington (National), DC | 6,825,376 | 74 | Louisville, KY | 963,178 |
| 25 | Salt Lake City, UT | 5,703,273 | 75 | Birmingham, AL | 958,539 |
| 26 | San Diego, CA | 5,631,471 | 76 | Dayton, OH | 933,753 |
| 27 | Cincinnati, OH | 4,903,127 | 77 | Guam, Guam | 927,190 |
| 28 | Washington (Dulles Int'l), DC | 4,464,895 | 78 | Syracuse, NY | 918,602 |
| 29 | Nashville, TN | 4,461,221 | 79 | Richmond, VA | 882,368 |
| 30 | Tampa, FL | 4,378,851 | 80 | Spokane, WA | 875,361 |
| 31 | Raleigh/Durham, NC | 4,376,097 | 81 | Greensboro, NC | 848,946 |
| 32 | Houston (William P. Hobby), TX | 4,001,769 | 82 | Sarasota, FL | 840,157 |
| 33 | San Juan, PR | 3,948,210 | 83 | Albany, NY | 786,060 |
| 34 | Cleveland, OH | 3,740,901 | 84 | Hilo, HI | 703,736 |
| 35 | Baltimore, MD | 3,614,491 | 85 | Colorado Springs, CO | 698,777 |
| 36 | Portland, OR | 3,500,423 | 86 | Des Moines, IA | 677,807 |
| 37 | Kansas City, MO | 3,482,243 | 87 | Grand Rapids, MI | 622,850 |
| 38 | Ft. Lauderdale, FL | 3,437,643 | 88 | Charleston, SC | 592,408 |
| 39 | Memphis, TN | 3,329,210 | 89 | Boise, ID | 589,620 |
| 40 | New Orleans, LA | 3,231,972 | 90 | Wichita, KS | 572,136 |
| 41 | San Jose, CA | 3,091,997 | 91 | Lubbock, TX | 563,333 |
| 42 | Oakland, CA | 3,009,394 | 92 | Knoxville, TN | 534,998 |
| 43 | Ontario, CA | 2,965,837 | 93 | Madison. WI | 524,474 |
| 44 | Dallas (Love Field), TX | 2,942,967 | 94 | Harrisburg, PA | 515,660 |
| 45 | Indianapolis, IN | 2,803,504 | 95 | Midland, TX | 506,780 |
| 46 | San Antonio, TX | 2,638,589 | 96 | Brownsville, TX | 500,470 |
| 47 | Orange County, CA | 2,637,841 | 97 | Savannah, GA | 480,296 |
| 48 | Albuquerque, NM | 2,506,884 | 98 | Corpus Christi, TX | 474,504 |
| 49 | Sacramento, CA | 2,485,878 | 99 | Columbia, SC | 452,350 |
| 50 | West Palm Beach, FL | 2,366,819 | 100 | Charlotte Amalie, St. Thomas, VI | 448,395 |

V. U.S. CIVIL AIR CARRIER FLEET

The U.S. air carrier fleet data shown in this chapter were developed from reports collected by the FAA field offices from the carriers detailing the number of aircraft by type and the associated used in air carrier service.

The aircraft reported in this chapter are all aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircarft-more than 30 seats) and 14 CFR 135 (small aircarft--30 seats or less). This definition is more encompassing than that used in Chapter 6. It is also different from the definition used in the FAA Aviation Forecast--jet aircraft of 60 seats or more, carrying passengers or cargo for compensation or hire.

TABLE 5.1 TOTAL AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS BY TYPE OF AIRCRAFT 1983–1992

| | | | | Fixed-Wing | | | Tatal |
|-------|------------|--------------|-------|------------|-----------|--------|-----------------|
| Year | Year Total | Total Fixed- | | Turbine | | Dieta | Total Rotary |
| | | Wing | Total | Turbojet | Turboprop | Piston | Wing |
| 1983 | 4,203 | 4,194 | 3,640 | 2,768 | 872 | 554 | 9 |
| 1984 | 4,371 | 4,359 | 3,916 | 2,960 | 956 | 443 | 12 |
| 1985 | 4,678 | 4,673 | 4,240 | 3,164 | 1,076 | 433 | 5 |
| 1986 | 4,909 | 4,907 | 4,487 | 3,283 | 1,204 | 420 | 2 |
| 1987 | 5,250 | 5,237 | 4,816 | 3,575 | 1,241 | 421 | 13 |
| 1988 | 5,660 | 5,652 | 5,290 | 3,915 | 1,375 | 362 | 8 |
| 1989 | 5,778 | 5,771 | 5,418 | 3,942 | 1,476 | 353 | 7 |
| 1990 | 6,083 | 6,072 | 5.743 | 4,148 | 1,595 | 329 | 11 |
| 1991 | 6,054 | 6,048 | 5,765 | 4,167 | 1,598 | 283 | 6 |
| 19921 | 7,320 | 7.187 | 6,340 | 4,446 | 1,894 | 847 | 133 |

Note: Air Carrier aircraft are aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircraft —more than 30 seats) and 14 CFR 135 (small aircraft —30 seats or less). This definition is more encompassing than that used in the FAA Aviation Forecast —jet aircraft, 60 seats or more, carrying passengers or cargo for compensation or hire.

Note: Beginning in 1987, the number of aircraft is the monthly average of the number of aircraft reported in use for the last three months of the year. Prior to 1987, it was the number of aircraft reported in use during December of the year.

Source: 1983 - 1991 Air Carrier Aircraft Utilization and Propulsion Reliability Report; Aviation Aviation Standards National Field Office, Federal Aviation Administration. 1992: Vital Information System

¹ Does not include 8,805 aircraft operated by the On-demand Air Taxis:

Jets: 720

Turboprops: 1,156 Piston: 5,457 Rotorcraft: 1,472

TABLE 5.2 AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983-1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|------------|
| TOTAL | 7,320 | 6.054 | 6.083 | 5,778 | 5,660 | 5,250 | 4,909 | 4.678 | 4.370 | 4.20 |
| Turbojet-4-engineTotal | | 410 | 432 | 428 | 427 | 382 | 322 | 322 | 349 | 301 |
| Boeing B707 | | 27 | 25 | 27 | 31 | 31 | 35 | 27 | 22 | 24 |
| Boeing B720 | | _ | | - | _ | _ | _ | _ | _ | , |
| Boeing 8747 | . 178 | 184 | 190 | 180 | 171 | 156 | 150 | 151 | 156 | 144 |
| British Aerospace Aircraft Group BA 146 | . 23 | 17 | 44 | 53 | 57 | 57 | 25 | 29 | 14 | : |
| Convair CV22 | . - | | _ | _ | | | _ | _ | |) ; |
| Douglas DC8 | . 168 | 182 | 173 | 168 | 168 | 138 | 112 | 115 | 157 | 13: |
| Turbojet-3-engineTotal | 1,381 | 1,376 | 1,438 | 1,459 | 1,542 | 1,469 | 1,466 | 1,488 | 1,438 | 1,39 |
| Boeing B727 | 1,029 | 1,073 | 1,152 | 1,167 | 1,246 | 1,168 | 1,172 | 1,195 | 1,161 | 1,12 |
| Douglas DC10/MD-11 | 239 | 203 | 185 | 185 | 184 | 185 | 180 | 179 | 174 | 15 |
| Lockheed L1011 | . 113 | 100 | 101 | 107 | 112 | 116 | 114 | 114 | 103 | 11 |
| Turbojet-2-engineTotal | 2,676 | 2,381 | 2,278 | 2,055 | 1,946 | 1,724 | 1,495 | 1,354 | 1,172 | 1,06 |
| Airbus A300 | . 58 | 63 | 67 | 63 | 57 | 52 | 52 | 46 | 38 | 3 |
| Airbus A310 | . 21 | 42 | 21 | 19 | 19 | 13 | 7 | 4 | _ | 1 - |
| Airbus A320 | . 54 | 35 | 10 | 11 | | | _ | _ | _ | i - |
| Boeing B737 | 915 | 835 | 812 | 756 | 706 | 633 | 555 | 476 | 391 | 34 |
| Boeing B757 | 328 | 234 | 199 | 146 | 122 | 95 | 73 | 48 | 19 | 1 |
| Boeing B767 | . 170 | 136 | 120 | 111 | 126 | 83 | 69 | 59 | 53 | 4 |
| British Aircraft BAC111 | | 1 | 3 | | 30 | 39 | 45 | 32 | 33 | 3 |
| Cessna C500/C501 | | - | o | | | _ | _ | 2 | 1 | |
| Cessna C550 | | | 7 | 5 | - | ' | | | _ | - |
| Cessna C650 | 1 | - | _ | | | | | | | i |
| Dassault Falcon | | 2 | | _ | - | _ | _ | | | i - |
| Dassault MD10 | , , | | | | | | | | 2 | _ |
| Dassault MD20 | 1 | | | | - | | | 2 | 9 | 1: |
| Douglas DC9/MD-80 | | 953 | 967 | 888 | 837 | 760 | 643 | 641 | 594 | 55 |
| Fokker F28 | 117 | 75 | 68 | 53 | 47 | 47 | 50 | 41 | 23 | |
| Grumman G1159 | .] 1 | 3 | 1 | _ | _ | | | _ | 1 | |
| Hamberger Flugzeubam HFB320 | 1 | | _ | _ | - | - | - | | - | |
| Israel Aircaft 1121 | . 1 | | _ | - | _ | _ | | _ | | - |
| Learjet LR25 | .] | 2 | 1 | 2 | 1 | | _ | _ | | |
| Leariet LR35 | . 3 | _ | 2 | 1 | 1 | 2 | 1 | 3 | 8 | |
| Sud Aviation SE210 | . | _ | _ | | | - | - | _ | _ | |
| Turboprop-4-engine—Total | 107 | 75 | 88 | 96 | 95 | 102 | 96 | 108 | 109 | 9: |
| Canadair CL44 | . 5 | | 5 | 5 | 6 | 6 | 2 | 6 | 5 | |
| DeHavilland DHC7 | . 40 | 33 | 40 | 41 | 39 | 41 | 40 | 42 | 46 | 4 |
| Lockheed L188 | . 44 | 24 | 24 | 30 | 30 | 34 | 33 | 38 | 34 | 3 |
| Lockheed L382 | 18 | 18 | 19 | 20 | 20 | 21 | 21 | 22 | 22 | 1 |
| Vickers V745 | .] _] | _ | | _ | - | - | | _ | 2 | : |
| Turboprop-2-engineTotal | 1,787 | 1,523 | 1.507 | 1,380 | 1,280 | 1.139 | 1,108 | 965 | 847 | 77 |
| Beech BE65 | 16 | _ | _ | _ | 1 | 4 | 1 | _ | _ | _ |
| Beech BE90 | | _ | _ | _ | 1 | 4 | _ | 3 | 2 | |
| Beech BE99 | 39 | 32 | 54 | 53 | 84 | 52 | 95 | 103 | 85 | 10 |
| Beech BE100 | | 1 | 2 | 1 | 1 | - | 1 | 1 | 2 | |
| Beech BE200 | 1 3 | 8 | 16 | 10 | 7 | 5 | 2 | 1 | 6 | |
| Beech BE1900 | 231 | 167 | 147 | 109 | 80 | 48 | 60 | 42 | 17 | _ |
| Beech STC18 | .] _] | | | | _ | | _ | | 1 | |

TABLE 5.2—Continued AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983-1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|--|------|------------|---------------|---------|------------|---------------|----------|----------|--------------|------|
| British Aerospace Aircraft Group Jetstream | 240 | 214 | 222 | 165 | 135 | 113 | 69 | 46 | 10 | 10 |
| British Aerospace BA ATP | 10 | 10 | 4 | _ | _ | - | _ | | _ | _ |
| Cessna C425 | 1 [| | _ | - | — 1 | | _ | | _ | - |
| Cessna C441 | 2 | 2 | 2 | 4 | 3 | 2 | 3 | 1 | 3 | 1 |
| Construcciones Aeronautics CA212 | 1 | 13 | 16 | 16 | 18 | 16 | 19 | 24 | 27 | 28 |
| Concair CV580/CV640/CV600 | 19 | 37 | 33 | 58 | 72 | 77 | 91 | 100 | 107 | 100 |
| DeHavilland DHC6 | 74 | 69 | 67 | 69 | 63 | 71 | 68 | 86 | 107 | 112 |
| DeHavilland DHC8 | 115 | 81 | 74 | 64 | 44 | 34 | 26 | 10 | | _ |
| Dornier DO228 | 13 | 31 | 32 | 34 | 33 | 18 | 12 | 6 | _ | _ |
| Douglas DC3 | - | - | | | | - | _ | 1 | _ | _ |
| Embraer EM110 | 16 | 23 | 48 | 59 | 77 | 97 | 91 | 79 | 81 | 83 |
| Embrear EM120 | 195 | 167 | 156 | 105 | 62 | 36 | 16 | 0 | 0 | 0 |
| Fairchild FH27 | 2 | 7 | 9 | 7 | 7 | 13 | 20 | 28 | 23 | 19 |
| Fairchild FH227 | 3 | 3 | 4 | 11 | 8 | 7 | 8 | 9 | 9 | |
| Fokker F27 | 51 | 40 | 46 | 42 | 33 | 26 | 36 | 27 | 14 | 7 |
| Grumman G73 | 5 | 4 | 7 | 5 | 7 | | _ | | _ | 4 |
| Grumman G159 | 1 | 2 | 7 | 6 | 5 | 14 | 15 | 23 | 21 | 16 |
| Grumman G500 | _1 | | | 1 | _ | | _ | | | |
| Hawker-Siddeley HS748 | | | | | _ | | | 2 | 5 | |
| Mitsubishi MU2 | 10 | 1 | 1 | _ | | 1 | 6 | 3 | 1 | 2 |
| Nihon YS11 | 31 | 22 | 21 | 21 | 22 | 36 | 36 | 42 | 30 | 35 |
| Nord ND262 | 3, | | 1 | 2 | 9 | 12 | 15 | 14 | 14 | 9 |
| Piper 31T | 99 | 8 | 8 | 12 | 9 | 6 | 5 | 4 | 8 | 6 |
| Piper 42 | 1 | 1 | | 12 | 3 | | 3 | • | | |
| Rockwell AC690 | | | | _ | 1 | 1 | 4 | 4 | 4 | 1 |
| Saab-Fairchild SF340 | 195 | 153 | 109 | - 85 | 68 | 51 | 34 | 17 | 3 | 1 |
| Short SC7 | 135 | 2 | 2 | 65 | 90 | 31 | | | | 1 |
| | 88 | 93 | | - | 110 | 440 | 1 | 1 | 1 | |
| Short SD3 | 108 | | 103 | 118 | 110 | 110 | 110 | 77 | 78 | 66 |
| S.N.I.A.S. ATR42 | | 101 | 77 | 62 | 35 | 20 | 8 | _ | | |
| | 14 | | - | _ | - | 404 | 400 | | - | |
| Swearingen SA226 | 14 | 31 | 22 | 57 | 90 | 101 | 122 | 113 | 121 | 99 |
| Swearingen SA227 | 174 | 200 | 218 | 212 | 191 | 163 | 135 | 101 | 70 | 55 |
| Piston-4-engine—Total | 20 | 26 | 31 | 35 | 36 | 38 | 32 | 38 | 50 | 52 |
| DeHavilland DH114 | - | - | - | _ | _ | _ | | _ | 6 | 11 |
| Douglas DC4 | | | | _ | | | 1 | 3 | 3 | 3 |
| Douglas DC6 | 19 | 25 | 30 | 34 | 35 | 37 | 30 | 34 | 41 | 38 |
| Douglas DC7 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | _ | _ |
| Piston-3-engine—Total | 5 | 5 | 6 | 5 | 3 | 3 | 3 | 4 | 4 | 1 |
| Britten Norman MK3 | 5 | 5 | 6 | 5 | 3 | 3 | 3 | 4 | 4 | 1 |
| Piston-2-engins—Total | 415 | 252 | 292 | 313 | 323 | 380 | 385 | 394 | 389 | 496 |
| Aero Commander AC500 | | -1 | | _ | _ | _ | | - | _ | 2 |
| Beach BE18 | 18 | 5 | 3 | 5 | 6 | 5 | 9 | 7 | 15 | 20 |
| Beech BE36 | 5 | - | - | 1 | 3 | - | <u> </u> | - | | |
| Beech BE55 | 1 | - | - | _ | _ | 2 | 1 | | - | 1 |
| Beech BE58 | 14 | 4] | 4 | 6 | 15 | 7 | 4 | 9 | 9 | 6 |
| Beech BE65 | - | 2 | 2 | 2 | 2 | 2 | 3 | | [| 3 |
| Beech BE76 | -1 | - | - | _ | _ | _ | 2 | 3 | 3 | 1 |
| Beech BE80 | -1 | -1 | -1 | - | - | - | | 4 | 8 | |
| Beech BE95 | 3 | 1 | 1 | 1 | 3 | - | - | | | - |
| Beech BE99 | l | | | - | - | | -1 | | | 1 |
| Britten Norman BN2A | 18 | 14 | 15 | 16 | 30 | 29 | 29 | 7 | 27 | 29 |
| Cessna C207T | | - | _ <u>-</u> | | _ | _ | - | | | 1 |
| Cessna C210 | 6 | - 1 | _ | [| _ | | _ | | _1 | |
| Cessna C303T |] |] | J | j | 1 | 1 | 1 | 1 | _ | |
| Cessna C310 | 5 | 2 | 2 | 2 | | 1 | 1 | 1 Í | 2 | 3 |
| Cessna C310 | | | | - 1 | | | | | - 1 | - |
| Cessna C310 | 1 | | <u> </u> | ! | | 1 | | | 1 | |
| | 1 | - 1 | - 1 | 1 | 4 | _ | _ | _ | 1 [| _ |
| Cessna C320 | ` 1 | 1 91 | 1 1 110 | 1 98 | 4 101 | _ _ 143 | 147 | - 155 | 1 112 | 152 |

TABLE 5.2—Continued AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983–1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|-------------------------|------|------|------|------|------|------|------|------|------|------|
| Cessna C411 | _ | _ | | _ | _ | _ | _ | | 1 | |
| Cessna C414 | 1 | 1 | 1 | _ | _ | _ | 2 | 1 | 1 | 1 |
| Cessna C421 | 2 | | _ | - | 1 | _ | - | _ | 1 | _ |
| Convair CV240 | 19 | 13 | 11 | 9 | 9 | 10 | 9 | 12 | 15 | 10 |
| Convair CV340/CV440 | 30 | 24 | 25 | 26 | 21 | 23 | 17 | 18 | 14 | 22 |
| Curtiss-Wright C46 | _ | _ | _ | - | | _ | _ | 3 | 2 | 4 |
| Douglas DC3 | 21 | 12 | 15 | 19 | 20 | 38 | 43 | 39 | 30 | 42 |
| Fairchild C82 | _ | | _ | | - | _ | - | _ | _ | 2 |
| Grumman G21 | 7 | _ | | _ | - | - | _ | 3 | 4 | 3 |
| Grumman G44 | 4 | _ | _ | _ | 1 | 1 | 1 | 1 | 1 | 1 |
| Grumman G73 | _ | _ | 2 | 3 | 4 | 12 | 11 | 3 | 5 | 5 |
| Grumman G111 | _ | _ | _ | _ | | 2 | 3 | 6 | _ | 4 |
| Martin M404 | _ | _ | | 2 | 2 | 1 | l – | _ | 1 | 13 |
| Partanivia PT68 | _ | _ | _ | | [_ | 2 | _ | _ | _ | _ |
| Piper P23 | 16 | 8 | 9 | g | 9 | 11 | 9 | 3 | 10 | 16 |
| Piper P28 | 18 | _ | | | | _ | ļ _ | _ | _ | 7 |
| Piper P30 | | | | _ | | _ | i – | | 1 | 2 |
| Piper P31 | _ | 66 | 81 | 100 | 71 | 77 | 73 | 100 | 110 | 121 |
| Piper P32 | 78 | 4 | 2 | 2 | 2 | 2 | _ | _ | _ | _ |
| Piper P34 | 16 | 3 | 7 | 9 | 12 | 4 | 9 | 12 | 11 | 17 |
| Piper P44 | 1 | - | | - | 1 | 1 | 1 | 1 | 1 | 1 |
| Piper PA600 | 1 | _ | _ | 1 | 1 | 2 | 2 | | _ | |
| Piper PA1020T | | | | | | _ | 2 | _ | _ | _ |
| Piston-1-engine—Total | 407 | NA | NA. | NA | NA . | NA | NA. | NA. | NA | NA |
| telloopter—Total | 133 | 6 | 11 | 7 | 8 | 13 | 2 | 5 | 12 | 9 |

Note: Air Carrier aircraft are aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircraft —more than 30 seats) and 14 CFR 135 (small aircraft —30 seats or less). This definition is more encompassing than that used in the FAA Aviation Forecast —jet aircraft, 60 seats or more, carrying passengers or cargo for compensation or hire.

NA-Not available for prior years.

Note: Beginning in 1987, the number of aircraft is the monthly average of the number of aircraft reported in use for the last three months of the year. Prior to 1987, it was the number of aircraft reported in use during December of the year.

Source: 1983 - 1991 Air Carrier Aircraft Utilization and Propulsion Reliability Report; Aviation Aviation Standards National Field Office, Federal Aviation Administration. 1992: Vital Information System

1 Does not include 8,805 aircraft operated by the On-demand Air Taxis:

Jets: 720

Turboprops: 1,156 Piston: 5,457 Rotorcraft: 1,472

TABLE 5.3 TOTAL FLIGHT HOURS FOR AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983-1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|----------------------------|----------------------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|
| TOTAL | 13,839,486 | 13,483,182 | 13,500,126 | 12,687,084 | 12,284,089 | 11,885,699 | 11,221,578 | 10,496,546 | 9,674,406 | 8,555,538 |
| Turbojet 4 engineTotal | 886,306 | 999,133 | 1,139,210 | 1,120,917 | 1,093,392 | 997,951 | 921,409 | 817,058 | 861,380 | \$16,624 |
| Boeing 8707 | 25,239 | 34,125 | 39,522 | 40,046 | 43,946 | 36,206 | 37,448 | 15,904 | 39,243 | 64,819 |
| Boeing B720 | - | - | _ | _ | _ | _ | | | 136 | 438 |
| Boeing 8747 | 584,095 | 630,850 | 680,668 | 643,231 | 620,327 | 575,426 | 559,137 | 537,964 | 537,142 | 504,573 |
| British Aerospace | | | | | | | | | | |
| Aircraft Group BAE146 | 43,261 | 49,806 | 94,574 | 121,415 | 128,339 | 125,918 | 92,431 | 52,452 | 14,140 | 1,623 |
| Douglas DC8 | 233,711 | 284,352 | 324,446 | 316,225 | 300,780 | 260,401 | 232,393 | 210,748 | 270,728 | 245,171 |
| Turbojet-3-engineTotal | 3,006,453 | 3,125,859 | 3,459,434 | 3,533,071 | 3,705,084 | 3,865,525 | 3,960,406 | 3,843,357 | 3,786,832 | 3,278,501 |
| Boeing 8727 | 1,984,035 | 2,208,622 | 2,528,818 | 2,606,796 | 2,780,240 | 2,930,107 | 3,036,233 | 2,989,848 | 2,990,821 | 2,529,074 |
| Douglas DC10/MD11 | 700,964 | 613,916 | 587,954 | 589,989 | 583,558 | 566,751 | 580,200 | 529,073 | 487,831 | 423,824 |
| Lockheed L1011 | 320,454 | 303,321 | 342,662 | 336,286 | 341,286 | 368,667 | 343,973 | 324,436 | 308,180 | 325,603 |
| Turbojet-2-engineTotal | 6,735,753 | 6,296,850 | 5,999,153 | 5,295,578 | 4,951,466 | 4,575,179 | 4,057,267 | 3,568,486 | 2,872,265 | 2,494,072 |
| Airbus A300 | 152,677 | 166,833 | 177,996 | 158,716 | 150,603 | 156,947 | 150,898 | 131,904 | 101,143 | 84,674 |
| Airbus A310 | 84,523 | 79,073 | 80,040 | 76,537 | 61,663 | 27,234 | 17,054 | 5,613 | ,0,,,40, | 0-,07- |
| Airbus A320 | 161,745 | 81,881 | 27,290 | 8,523 | 01,003 | 27,254 | 17,004 | 3,613 | | |
| Boeing 8737 | 2,365,822 | 2,318,936 | 2,253,106 | 2,039,117 | 1,859,347 | 1,730,473 | 1,489,831 | 1,312,425 | 1,006,238 | 829,359 |
| Boeing 8757 | 2,365,822 879,069 | | | | 321,369 | 270,729 | | | | - |
| | | 666,430 | 549,289 | 359,955 | | | 195,957 | 108,320 | 50,022 | 17,090 |
| Boeing B767 | 526,801 | 499,962 | 429958 | 412,183 | 367,591 | 274,429 | 223,227 | 192,467 | 172,705 | 104,222 |
| British Aircraft BAC111 | 236 | 159 | 630 | 27,611 | 65,095 | 84,642 | 68,906 | 73,873 | 59,555 | 79,011 |
| Cessna C500/C501 | _ | - | | | - | 54 | 50 | 546 | 657 | 652 |
| Cessna C550 | - | | 10,073 | 3,237 | - | - | - | - | -1 | _ |
| Dassault Falcon | | 278 | - | _ | | _ | — <u> </u> | | | _ |
| Dassault MD10 | 53 | | | | _ | _ | - | 2,262 | 696 [| |
| Dassault MD20 | 2,002 | - | | _ | | - | | 4,336 | 3,218 | 11,097 |
| Douglas DC9/MD88 | 2,365,520 | 2,317,321 | 2,323,334 | 2,106,800 | 2,035,672 | 1,931,391 | 1,809,888 | 1,655,353 | 1,438,339 | 1,348,511 |
| Folker F28 | 196,582 | 155,122 | 145,547 | 101,421 | 88,682 | 97,727 | 98,918 | 73,494 | 33,036 | 13,224 |
| Grumman G1159 | 270 | 413 | 60 | _ | 47 | _ | | 334 | 660 | 309 |
| Hamberger Flugzeubam | 1 1 | | | | | | | | J | |
| HFB320 | - | _ | - | | _ | _ | | - | 102 | 734 |
| Israel Aircraft 1121 | l l | | | _ | _ | _ | | _ | | 8 |
| Learjet LR23 | l –l | - | | _ | - | - | | _ | - | 1,227 |
| Learjet LR24 | _ | - | - | _ | _ | <u> </u> | - | _ | | 537 |
| Learjet LR25 | 453 | 291 | 384 | 482 | 44 | _ | | _ | _ | _ |
| Learjet LR35 | - | 151 | 1,446 | 996 | 1,353 | 1,553 | 2,536 | 7,559 | 5,892 | 3,148 |
| Rockwell International |] | | | | | | | | | |
| NA265 | _ | —i | _ | | _ | | | | _} | 49 |
| Sud Aviation SE210 | | _ | | _ | _ | _ | 1 | _ | _1 | 220 |
| Turboprop-4-engine—Total | 106,657 | 138,463 | 164,771 | 175,469 | 154,747 | 181,424 | 169,884 | 209,197 | 216,405 | 206,435 |
| Canadair CL44 | 1,409 | 1,892 | 5,896 | 6,527 | 8,427 | 9,355 | 8,687 | 9,147 | 7,567 | 6,066 |
| DeHavilland DHC7 | 54,362 | 58,579 | 76,007 | 86,434 | 76,027 | 91,899 | 73,524 | 98,315 | 106,287 | 103,528 |
| Lockheed L188 | 15,230 | 28,543 | 32,286 | 31,457 | 23,691 | 33,618 | 38,019 | 44,765 | 45,182 | 47,981 |
| Lockheed L382 | 35,656 | 49,449 | 50,582 | 51,051 | 46,602 | 46,552 | 49,654 | 56,597 | 56,165 | 47,877 |
| Vickers V745 | 55,550 | , | 55,552 | J., | | | , | 373 | 1,204 | 983 |
| Turboprop-2-engine—Total | 2,961,344 | 2,734,707 | 2,508,271 | 2,335,386 | 2,118,066 | 1,943,532 | 1,720,179 | 1,616,425 | 1,487,032 | 1,288,616 |
| Beech BE65 | | | | 2,000,000 | | 596 | 639 | .,0.0,425 | 1,407,002 | 1,200,010 |
| Beech BE90 | I I | | | 40 | 374 | 303 | 158 | 360 | 443 | 626 |
| Beech BE99 | 26,827 | 60,176 | 51,481 | 86,255 | 125,247 | 141,691 | 175,543 | 199,736 | 199,205 | 183,5% |
| Beech BE100 | 627 | 787 | 828 | 934 | 769 | 803 | 259 | 806 | ſ | 103,5% |
| Beech BE200 | 12,196 | | 31,140 | 15,134 | 9,679 | 3,625 | 970 | 1 | 202 | |
| Beach BE1900 | | 12,751 | | | | | 107,128 | 3,541 | | 1,86. |
| Beech STC18 | 397,510 | 323,440 | 238,129 | 196,469 | 153,473 | 135,960 | | 73,211 | 23,289 | |
| | -(| - | - | - | _ | | 982 | - | 648 | 632 |
| British Aerospace Aircraft | 45 | | | | 000 000 | 455 | 455 | | l | |
| Group Jetstream | 434,103 | 391,062 | 307,585 | 274,357 | 252,253 | 188,315 | 108,723 | 60,492 | 27,712 | 18,485 |
| British Aerospace BA ATP | 17,156 | 13,762 | 3,778 | _ | - | | - | _ | - | |

TABLE 5.3—Continued TOTAL FLIGHT HOURS FOR AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983–1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|----------------------------|---------|------------|---------|------------|---------|---------|---------|---------|---------|------------|
| Cesana C441 | 1,200 | 1,588 | 2,782 | 3,713 | 4,948 | 3,874 | 1,364 | 1,745 | 1,672 | 1,26 |
| Construcciones Aeronautics | 1 | | | ļ | | 1 | i | | [| |
| CA212 | 10,390 | 16,240 | 22,574 | 21,710 | 23,610 | 21,643 | 19,891 | 24,886 | 34,252 | 33,90 |
| Concair CV580/CV640/ | 1 | | 1 | | | | ì | | | |
| CV600 | 20,125 | 21,709 | 23,534 | 38,641 | 63,141 | 82,371 | 100,288 | 113,063 | 121,399 | 121,78 |
| DeHavilland DHC6 | 88,275 | 95,433 | 103,670 | 107,403 | 113,810 | 122,783 | 113,958 | 162,340 | 176,233 | 169,98 |
| DeHavilland DHC8 | 242,447 | 174,306 | 160,925 | 127,911 | 80,964 | 55,680 | 36,835 | 7,362 | -1 | |
| Dornier DO228 | 27,448 | 59,906 | 72,680 | 57,357 | 56,580 | 26,032 | 16,044 | 12,306 | | |
| Douglas DC3 | 34 | _ | | _ | 531 | | | 1,478 | _1 | |
| Embraer EM110 | 32,270 | 47,802 | 85,513 | 124,773 | 148,880 | 177,781 | 149,585 | 156,363 | 199,536 | 196,12 |
| Embrear EM120 | 452,114 | 383,804 | 310,440 | 211,897 | 114,296 | 66,054 | 18,838 | _ | _ | |
| Fairchild FH27 | 3,315 | 2,187 | 4.605 | 4,709 | 9,821 | 13,502 | 31,232 | 36,440 | 35,521 | 24.7 |
| Flerchild FH227 | 269 | 1.030 | 1,509 | 4,209 | 12,169 | 11,787 | 13,244 | 14,491 | 17,053 | 19.52 |
| Fokker F27 | 49,413 | 61,698 | 65,309 | 60,371 | 50,645 | 59,910 | 61,144 | 40,521 | 25,056 | 13,15 |
| GAF Nomed N22 | 1,236 | | 10,000 | 35,5. | 30,0.5 | 10,0.0 | J., | | | ,.(|
| Grumman G73 | 2,311 | 2,562 | 1,968 | 6,328 | 10,036 | _1 | _1 | | _1 | |
| Grumman G159 | 268 | 1,499 | 9,348 | 9.669 | 7,139 | 15,177 | 23,328 | 23.911 | 20,773 | 18,3 |
| Grumman G500 | 200 | 1,700 | 3,3-0 | 88 | 93 | 13,177 | | 23,911 | 20,7/3 | 10,3 |
| Hawker-Siddeley HS748 | _1 | -1 | _ | ~~ | ~ | -, | - | 2,500 | 7,385 | 9.3 |
| Israel Aircraft AR1018 | | | | | | -1 | 1 | 2,500 | 7,365 | 9,3. 5i |
| | ~~ | | | -1 | | 250 | 2 222 | | | |
| Mitsubishi MU2 | 217 | 222 | 142 | | 88 | 256 | 2,980 | 1,390 | 314 | 45.5 |
| Nihon YS11 | 11,868 | 14,071 | 14,254 | 16,003 | 17,645 | 38,093 | 46,268 | 53,707 | 48,246 | 43,2 |
| Nomad N24 | - | 1,160 | | 1 | 1,907 | | | | | |
| Nord ND262 | | 100 | 487 | 896 | 11,132 | 23,313 | 24,860 | 20,604 | 20,820 | 22,4 |
| Piper 31T | 53,249 | 8,256 | 9,024 | 11,410 | 8,232 | 5,656 | 4,865 | 7,003 | 10,103 | 2,61 |
| Rockwell AC690 | ~1 | -1 | -1 | -1 | 4[| 476 | 3,057 | 3,076 | 2,683 | : |
| Saab-Fairchild SF340 | 395,691 | 287,144 | 197,149 | 171,936 | 152,177 | ≥8,616 | 56,392 | 20,627 | 386 | |
| Short SC7 | 1,221 | 1,454 | 964 | 112 | - | - | 101 | 315 | 475 | 73 |
| Short SD3 | 138,658 | 167,255 | 203,871 | 192,509 | 183,422 | 217,177 | 184,680 | 178,862 | 150,714 | 123,36 |
| S.N.I.A.S. ATR42 | 180,742 | 174,754 | 142,741 | 120,074 | 60,029 | 27,943 | 5,923 | - | -1 | |
| S.N.I.A.S. ATR72 | 21,681 | - | -1 | | - | -1 | -1 | -∤ | -1 | |
| Sweeringen SA226 | 18,837 | 33,583 | 52,104 | 97,484 | 144,032 | 163,994 | 185,243 | 217,667 | 218,716 | 194,32 |
| Swearingen SA227 | 339,626 | 374,966 | 389,737 | 372,992 | 300,940 | 240,121 | 225,657 | 177,622 | 141,674 | 87,75 |
| iston-4-engineTotal | 15,780 | 21,044 | 22,919 | 24,538 | 25,063 | 24,367 | 24,909 | 30,854 | 29,215 | 33,6 |
| DeHavilland DH114 | | - | - | -1 | - | -[| -[| 2,626 | 7,847 | 16,83 |
| Dougles DC4 | 419 | <u> </u> | 268 | -1 | -1 | _l | 1,038 | 1,512 | 720 | 1,18 |
| Douglas DC6 | 15,072 | 20,465 | 21,979 | 23,418 | 24,055 | 23,405 | 23,049 | 26,039 | 20,648 | 15,50 |
| Douglas DC7 | 289 | 579 | 674 | 1,120 | 1,028 | 962 | 822 | 677 | · _ | |
| iston-3-engineTotal | 2,665 | 3,786 | 4,664 | 3,229 | 2,831 | 2,477 | 1,716 | 5,470 | 2.963 | 1,16 |
| Britten Norman MK3 | 2,665 | 3,786 | 4,664 | 3,229 | 2,831 | 2,477 | 1,716 | 5,470 | 2,983 | 1,19 |
| iston-2-engine—Total | 101,145 | 168,388 | 193,646 | 194,168 | 229,150 | 291,397 | 360,823 | 402,377 | 410,297 | 427,44 |
| Aero Cammander AC500 | _ | | | | 13 | | 6 | 28 | 300 | 87 |
| Aero Cemmender AC800 | 1 |] | | l | 70 | _ | ا | | | 58 |
| Beech BE18 | 1,984 | 1,658 | 1,218 | 1,157 | 466 | 578 | 345 | 3.015 | 9,723 | 10,7 |
| Beech A36TC | ., | .,000 | ','0 | 1,083 | 1,040 | 659 | ا | 3,313 | 3,,23 | 10,71 |
| Beech BE55 | 295 | | _ | 1,000 | ,, | *** | 194 | _ | 284 | 67 |
| Beech BE58 | 117 | 3.665 | 1.823 | 2.285 | 2.498 | 2,165 | 1,727 | 4,262 | 2.637 | 1.4 |
| | ''' | ., | , | -, | -, | , | | 4,202 | 2,037 | |
| Beech BE65 | -1 | 1,042 | 2,408 | 2,355 | 3,940 | 2,181 | 5,252 | | | 3,31 |
| Beech BE76 | | - | - | - | _ | 28 | 142 | 525 | 586 | 30 |
| Beech BE80 | 772 | | | | | | - | 7,031 | 7,667 | • |
| Beech BE95 | 99 | 341 | 442 | 435 | 899 | 635 | _ | - | - | |
| Beech BE99 | | | -[| | [| | / | 1 | [| 3,7 |
| Britten Norman BN2A | 11,213 | 10,288 | 11,379 | 15,033 | 18,129 | 19,729 | 26,166 | 22,774 | 28,306 | 31,2 |
| Cessna C207T | -1 | | - | 639 | -[| -1 | -1 | -(| -[| 21 |
| Ceesna C210T | | -) | -1 | -1 |) | -1 | - | -1 | 45 | 24 |
| Cessna C303T | | - l | | - l | 67 | 6 | - | 237 | 207 | - |
| Cessna C310 | 1,080 | 378 | 1,135 | 573 | | 440 | 490 | 372 | 956 | 1,0 |

TABLE 5.3—Continued TOTAL FLIGHT HOURS FOR AIRCRAFT REPORTED IN OPERATION BY AIR CARRIERS, BY MANUFACTURER AND MODEL 1983–1992

| Aircraft Make and Model | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|-------------------------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| Cesena C320 | _ | _ | _ | | _ | | _ | 8 | 20 | |
| Cessna C340 | 1,028 | | | - | 134 | - | - | -1 | 6 | |
| Cessna C401 | | 770 | 1,032 | 1,632 | 376 | _ | | -1 | -1 | 786 |
| Ceesna C402 | 75,030 | 74,396 | 86,705 | 86,012 | 104,933 | 139,843 | 184,470 | 191,070 | 166,914 | 152,596 |
| Cessna C404 | | 462 | 468 | 837 | 2,321 | 4,022 | 4,959 | 4,562 | 6,730 | 9,694 |
| Cessna C411 | -1 | 1 | -1 | - | | _ | _ | 102 | 135 | - |
| Cessna C414 | 104 | 133 | 50 | - | 11 | 189 | 1,279 | 523 | 522 | 2,267 |
| Cessna C421 | | -1 | -1 | 26 | 89 | _ | - | 46 | 26 | 32 |
| Convair CV240 | 1,354 | 3,618 | 2,950 | 3,045 | 3,694 | 2,967 | 3,106 | 6,284 | 7,861 | 6,609 |
| Convair CV340/CV440 | 2,468 | 6,316 | 6,189 | 6,820 | 6,229 | 6,384 | 5,584 | 4,664 | 6,910 | 15,932 |
| Curties-Wright C46 | _ | _l | _\ | _ | _ | _ | 411 | 1,104 | 966 | 1,821 |
| Douglas DC3 | 2,075 | 3,702 | 5,279 | 7,389 | 14,680 | 21,485 | 25,971 | 25,916 | 23,498 | 21,836 |
| Fairchild C82 | -1 | | -1 | _ | 1 | _ | _ | 6 | 708 | 1,252 |
| Grummen G21 | | | - | _ | | _ | 787 | 1,861 | 1,927 | 1,453 |
| Grumman G44 | -1 | _ | -1 | - | 1 | | 56 | 110 | 151 | 96 |
| Grummen G73 | 151 | -l | 93 | 1,191 | 1,887 | 11,178 | 10,411 | 7,979 | 7,669 | 7,892 |
| Grumman G111 | _ | | | _ | | 1,712 | 3,476 | 3,207 | 4,298 | 1,817 |
| Martin M404 | _ | | | | 127 | 10 | - | 217 | 5.094 | 5,732 |
| Partenivia PT68 | | | _ | _ | 13 | 1,362 | | _ | _ | _ |
| Piper P23 | 2,230 | 2,495 | 3,217 | 3,419 | 4.024 | 5,100 | 4,113 | 6.308 | 4.691 | 6.658 |
| Piper P30 | | | · -l | | _ | _ | | 17 | 480 | 721 |
| Piper P31 | -1 | 56,405 | 66,000 | 56,781 | 61,016 | 67,554 | 72,782 | 102,855 | 114.330 | 128,305 |
| Piper P32 | 761 | 933 | 350 | 530 | 768 | 696 | _ | _ | _ | _ |
| Piper P34 | 384 | 1,702 | 2,865 | 2,895 | 1,266 | 981 | 7,352 | 7.255 | 6.660 | 7,296 |
| Piper P44 | _ | 86 | | 20 | 354 | 524 | 418 | 39 | _ | 250 |
| Piper PA600 | (| 1 | 43 | 11 | 106 | 409 | 321 | -1 | 1 | 169 |
| Piper PA1020T | _ | | _ | _ | _ | 568 | 1,006 | _ | _ | _ |
| eton-1-engineTotal | 927 | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| elicopterTotal | 3,456 | 4,952 | 8.000 | 4,728 | 4.270 | 3,847 | 4.905 | 5.322 | 7.906 | 9.037 |

Note: Air Carrier aircraft are aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircraft —more than 30 seats) and 14 CFR 135 (small aircraft —30 seats or less). This definition is more encompassing than that used in the FAA Aviation Forecast —jet aircraft, 60 seats or more, carrying passengers or cargo for compensation or hire.

TABLE 5.4 TOTAL LARGE AIRCRAFT REPORTED IN OPERATION BY DOMESTIC, FLAG AND SUPPLEMENTAL/SCHEDULED CARGO AIR CARRIERS AND COMMERCIAL OPERATORS BY CARRIER, AND BY ENGINE TYPE 1992

| | Total All | | Turt | ojet | | 1 | ntpobrot | , | | | Piston | | | Rotary |
|--|-----------|---------|------------|------------|------------|---------|------------|------------|------------|------------|------------|------------|------------|--------|
| Name of Carrier | Aircraft | Total | 4- eng. | 3- ang. | 2- eng. | Total | 4- eng. | 2- eng. | Total | 4- eng. | 3- eng. | 2- eng. | 1- eng. | Wing |
| Total | 6,037 | 4,439 | 389 | 1,381 | 2,669 | 1,257 | 107 | 1,150 | 255 | 20 | _ | 187 | 48 | 86 |
| Aerial Transit Co dba | | | | | | | | | ا ا | | | | | |
| Translados | 2 | _ | _ | _ | _ | _ | _ | _ | 2 | 2 | _ | - | - | _ |
| Air Transport Internat | 9 | 9 | 9 | _ | _ | _ | _ | _ | _ | _ | _ | - | _ | _ |
| Air Wisconsin Inc dba Unit- | | | | | | | | | | | | | | |
| ed Express | 39 | 12 | 12 | _ | | 27 | _ | 27 | - | | _ | | _ | |
| Airborne Express Inc | 81 | 70 | 23 | _ | 47 | 11 | _ | 11 | - | - | _ | - | _ | _ |
| Airmark Aviation dba | | | | | | | | | | 1 | | | | |
| Transtar | 71 | 4 | _ | | 47 | _ | _ | _ | - | _ | _ | | _ | _ |
| Alaska Airlines | /1 | 71 | _ | 24 | 4/ | _ | _ | _ | - | _ | _ | _ | _ | _ |
| Aloha Airlines Inc dba | 0.1 | - | | | | | | | | | : | · | | |
| Princeville | 21 | 21 | _ | | 21 86 | _ | | _ | [- | - | _ | [- | [— [| _ |
| America West Airl | 88 | 86 | _ | 217 | 465 | 2 | _ | 2 | _ | _ | | | _ | _ |
| American Airlines | 682 | 682 | _ | 217 | 400 | _ | _ | _ | - | _ | _ | - | _ | _ |
| American Internat. Air dba | 20 | | ~~ | | | | | | l | | | | | |
| Connie Kalitta FS | 28 | 28 | 23 | 3 | 2 | _ | _ | _ | _ | _ | _ | - | | _ |
| American Trans Air | 32 | 32 9 | - | 27 | 5 | _ | _ | _ | - | | _ | _ | _ | _ |
| Amerijet Intern Inc | 9 | | 7 | 9 | _ | _ | _ | _ | _ | _ | _ | - | _ | _ |
| Arrow Air Inc | 9 | 9 | , | 2 | _ | - | _ | _ | _ | _ | - | _ | _ | _ |
| Atlantic Coast Airlines dba | | | | | i | | | | l | | | | | |
| United Express | 39 | _ | _ | _ | _ | 39 | _ | 39 | 1 - | _ | | - | _ | _ |
| Atlantic Southeast | 66 | _ | _ | _ | _ | 66 | 2 | 64 | í – | [| _ | (- | _ | _ |
| Atlas Air Inc | 2 | 2 | 2 | _ | | _ | | _ | | _ | _ | 6 | _ | _ |
| Basier Flight Servic | 6 | _ | | _ | _ | _ | _ | _ | 6 | _ | _ | ٥ | _ | _ |
| Britt Airways dba Continen- | 05 | | | | | 0.5 | اء | | | | | | | |
| tal Express | 95 | | | _ | | 95 | 5 | 90 | - | _ | _ | _ | | |
| Buffalo Airways | 11 | 11 | 11 | | | _ | _ | _ | - | | _ | _ | _ | _ |
| Business Express Pilgrim | 70 | _ | _ | | ! | | | 05 | 1 | | | | | |
| Airlines | 70 | 5 | 5 | | _ | 65 | _ | 65 | - | | _ | _ | _ | _ |
| Capitol Air Express | 1 | 1 | _ | 1 7 | - | _ | | _ | _ | _ | | _ | _ | _ |
| Carnival Airlines | 17 | 17 | _ | ' | 10 | | _ | _ | _ | | _ | | _ | _ |
| Ccair Inc dba USAir Ex- | ~ | | | | | ~ | 1 | ~~ | [| | | | | |
| press | 23 | _ | _ | _ | _ | 23 | i — | 23 | - | _ | _ | _ | _ | _ |
| Challenge Air Cargo | 4 | 4 | . 1 | _ | 3 | | _ | | I – | _ | _ | _ | | _ |
| Comair Inc | 69 | _ | _ | _ | | 69 | _ | 69 | | _ | _ | _ | _ | _ |
| Condor Aviation | 1 | 338 | 8 | | - | | _ | _ | 1 | | _ | 1 | | |
| Continental | 338 | 336 | • | 118 | 212 | _ | _ | _ | _ | | _ | _ | _ | _ |
| Continental Air Transport | ا ا | ا | | ا ا | | | | | l ' | | | | | |
| dba Omni Air Express | 2 | 2 | | 1 2 | 1 | _ | _ | _ | - | _ | _ | _ | _ | _ |
| Crown Airways dba USAir | | | _ | | | _ | _ | _ | | _ | _ | _ | - | _ |
| Express | 10 | | | | | 10 | | 10 | | | | | | _ |
| Delta Airlines | | 556 | | 217 | 339 | 10 | | 10 | | | | | <u> </u> | _ |
| DHL Airways | 28 | 17 | | 17 | 339 | 10 | | 10 | | | | _ | _ | 1 |
| Eastern Airlines | | 5 | | <u>'</u> | 5 | 10 | _ | 10 | l | | | | | |
| Dash Air | 3 | 5 | _ | | | 3 | 3 | _ | | | | _ | _ | _ |
| Was Air Train | 29 | 29 | 29 | | | 3 | 3 | | I = | | _ | | | _ |
| Empire Airways | 47 | 29 | 29 | | | 11 | _ | 11 | 34 | _ | | 34 | - | _ |
| ERA Aviation | 117 | 2 | | | 2 | 13 | _ | 13 | 17 | | | 17 | _ | 85 |
| Evergreen Intern Air | 32 | 32 | 16 | 8 | 8 | 13 | <u>-</u> | 13 | l <u>"</u> | | | <u>''</u> | _ | |
| Executive Airlines dba | 32 | 32 | 10 | " | 9 | | | | | - | _ | _ | ! <u>-</u> | _ |
| American Eagle | 14 | | | _J | ! | 14 | <u> </u> | 14 |] _ | ! | | | _ | _ |
| Executive Flight Manage- | 14 | | _ | _ | _ | 14 | - | 14 | | - | _ | _ | i | _ |
| ment doa Trans Amer- | | | | | | | | 1 | | | | | | |
| ican Charter | 6 | 1 | | _ | 1 | <u></u> | _ | 5 | l | _ | | | _ | |
| Express One Internat | 24 | 24 | | 20 | 4 | 5 | | _ | | | _ | _ | ! | _ |
| Fairways Corp | 4 | 1 | | 20 | , | 3 | | 3 | J | <u> </u> | _ | _ | | _ |
| Federal Express Corp | 188 | 188 | 8 | 180 | _' | | | | | _1 | | | | _ |
| AND OF THE PROPERTY OF THE PRO | 100 | 100 | 0 | 100 | | | | | | لتسيا | | | | |

TABLE 5.4—Continued TOTAL LARGE AIRCRAFT REPORTED IN OPERATION BY DOMESTIC, FLAG AND SUPPLEMENTAL/SCHEDULED CARGO AIR CARRIERS AND COMMERCIAL OPERATORS BY CARRIER, AND BY ENGINE TYPE 1992

| | Total All | | Turt | ojet | | 1 | urbopro | ρ | <u> </u> | | Piston | | | Rotary |
|--|-----------|----------|------------|-----------|-----------|----------|------------|------------|-------------|------------|------------|-------------|------------|--------------|
| Name of Carrier | Aircraft | Total | 4- eng. | 3 eng. | 2- eng | Total | 4- eng. | 2- eng. | Total | 4~ eng. | 3- eng. | 2- eng. | 1- eng. | Wing |
| Fine Airlines | 5 | 5 | 5 | - | | _ | _ | | _ | | | _ | | |
| Flagship Airlines dba American Eagle | 136 | | _ | | _ | 136 | | 136 | | | | | _ ! | |
| Flight Trails dba Air Resorts Airlines | 1 7 | _ | _ | _ | _ | 7 | | 130 | _ | _ | _ | l _ | _ | _ |
| Florida West Airl | 4 | 4 | 4 | | _ | l – | _ | l – | - | _ | _ | _ | | _ |
| H C L Aviation Inc dba Av Atlantic | 4 | 4 | _ | 4 | _ | - | - | - | _ | _ | l – | <u> </u> | - | |
| Hawaiian Airlines | 29 | 25 | 6 | 5 | 14 | 4 | 4 | - | - | _ | - | - | _ | _ |
| Henson Aviation Inc dba USAir Ex- | l | | | , | | 1 | l | 1 | } | | i |) | ļ | |
| press | 38 | - | _ | - | _ | 38 | - | 38 | - | _ | - | - | _ | _ |
| Horizon Industries | | 3 | _ | | 3 | 54 | - | 54 | - | I — | - | - | _ | - |
| Internati Cargo Xpress | 1 | 2 | 2 | - | _ | l — | - | _ | _ | _ | - | _ | _ | _ |
| K and K Aircraft Inc | | | _ | _ | | _ | - | _ | 4 | _ | - | 4 | _ | - |
| Key Airlines | 12 | 12 | _ | 1 | 11 | - | - | - | _ | _ | 1 - | · - | _ | _ |
| Kitty Hawk Aircargo | 15 | 5 | _ | _ | 5 | 1 | - | י ן | 9 | _ | - | 9 | _ | |
| M W Modonald Inc dba Miami Air | _ | | | [| | ĺ | i | ĺ | ا۔ ا | | Í | اء ا | | |
| Charter | | - | _ | _ | _ | | | | 5 | _ | - | 5 | | _ |
| Markair Express | 1 | 25 | _ | - | - | 38 | 11 | 27 | 65 | _ | - | 25 | 40 | _ |
| Markair Inc | | | - | _ | 25 | - | _ | | _ | _ | _ | - | | |
| Mesaba Aviation | | _ 6 | 3 | 3 | _ | 49 | _ | 49 | _ | _ | _ | , – | _ | _ |
| Mgm Grand Air Inc | 1 | | 3 | | _ | _ | _ | - | - | _ | - | - | _ | _ |
| Miami Air International | 1 | 14 | 1 | 14 | _ | _ | <u> </u> | - | | | - | - | _ | |
| Mid Pacific Air Corp | - | 1 | , | - | 31 | 8 | _ | 8 | [- | _ | (- | (- | _ | _ |
| Midway Airlines Midwest Express Airl | | 31 14 | _ | _ | _ | l – | _ | - | - | _ | - | - | | _ |
| Million Air Inc | Ł. | 2 | 2 | _ | 14. | i – | l – | - | | _ | - | - | _ | _ |
| Morris Air Corporation | _ | 5 | - | | 5 | - | - | - | - | _ | - | - | _ | |
| Mountain Air Cargo | 1 | 3 | _ | _ |) 5 | 27 | - | 27 | 36 | _ | - | 36 | | _ |
| North American Airl | | 2 | | | 2 | " | I - | 21 | 30 | | _ | 30 | | _ |
| Northeast Exps Regn | 1 | | | | - | 28 | | 28 | 0 | _ | - | _ | | _ |
| Northern Air Cargo | | _ | | | _ | 20 | _ | 20 | 14 | 14 | l | _ | _ | _ |
| Northwest Airlines | | 371 | 50 | 100 | 221 | | _ | _ | '- | 140 | | | _ | |
| Paradise island Airl | | 3/1 | 30 | 100 | 821 | 6 | 6 | <u> </u> | | | í – | | _ | _ |
| Patriot Airlines | 1 - | 2 | | 2 | _ | <u> </u> | | 1 = | 1 | _ | 1 = | I _ | | |
| Pennsylvania Commut. dba USAir | [| ו ב | | • | _ | i | | i – | - | _ | _ | - | _ | |
| Express | , | _ | _ | | | 55 | _ | 55 | | _ | l | <u> </u> | | |
| Private Jet Expeditions | , | 9 | _ | _ | 9 | _ ~ | | ~ | l _ | | _ | _ | | |
| Reeve Aleutian Air | 1 | 12 | | 12 | _ | 34 | 22 | 12 | | | l _ | | | |
| Renown Aviation Inc | 1 | | _ | <u> </u> | _ | 4 | 1 | 3 | 8 | | _ | 8 | | |
| Rhoades Aviation | 1 | | | | _ | _ | l <u> </u> | _ | 17 | | | 17 | ' | _ |
| Rich Intern. Airways | 1 | 7 | 4 | 3 | _ | _ | | l _ | l <u>''</u> | _ | | l <u>''</u> | | |
| Ross Aviation Inc | • | | | _ | _ | 3 | 1 | 2 | _ | _ | í <u> </u> | _ | | |
| Ryan international dba PHH Air | | 32 | _ | 24 | 8 | ľ | l <u> </u> | ا ا | l _ | | _ | _ | | _ |
| Salair Inc | | _ | _ | | _ | 2 | _ | 2 | 5 | _ | l _ | 5 | | |
| Sierra Pacific Airlines | | 12 | | _ | 12 | 2 | _ | 2 | 2 | _ | _ | 2 | _ | _ |
| Simmons Airlines dba American | | | | | | 1 - | _ | ا ا | ا ا | | |] [| | _ |
| Eagle | 86 | | | _ | _ | 86 | _ | 86 | _ | | l _ | _ | | _ |
| Southern Air Trans | | 7 | 7 | | | 18 | 18 | | _ | | _ |] | | _ |
| Southwest Airlines | 144 | 144 | | _ | 144 | | | | | | _ | l _ | | |
| Sun Country Airlines | 10 | 10 | | 10 | | _ | 1 | _ | _ | | l _ | _ | | _ |
| Tem Enterprises dba Casino Ex- | | | | ' | | | | | [] | | [| [| | |
| press | 2 | 2 | | _ | 2 | _ | _ | _ | I _ | | _ | _ | | _ |

TABLE 5.4—Continued TOTAL LARGE AIRCRAFT REPORTED IN OPERATION BY DOMESTIC, FLAG AND SUPPLEMENTAL/SCHEDULED CARGO AIR CARRIERS AND COMMERCIAL OPERATORS BY CARRIER, AND BY ENGINE TYPE 1992

| | Total All | | Turt | ojet | | T | urbopro | ρ | | | Piston | | | Potos: |
|---------------------------------------|-----------|-------|------------|------------|------------|-------|------------|------------|-------|------------|-------------|------------|------------|----------------|
| Name of Carrier | Aircraft | Total | 4- eng. | 3- eng. | 2- eng. | Total | 4- eng. | 2- eng. | Total | 4- eng. | 3- eng. | 2- eng. | 1- eng. | Rotary Wing |
| Tower Air | 12 | 12 | 12 | _ | | | 1 | _ | | _ | | _ | | |
| Trans Air Link Corp | 4 | _ | | _ | | | | _ | 4 | 4 | _ | _ | _ | - |
| Trans Florida Airl | 4 | | _ | | _ | _ | _ | _ | 4 | _ | | 4 | _ | |
| Trans States Airline | 43 | _ | - | _ | _ | 43 | _ | 43 | | _ | _ | _ | _ | _ |
| Trans World Airlines | 196 | 196 | 14 | 94 | 88 | _ | _ | _ | _ | _ | l _ | | | _ |
| Trans World Express dba TWA Ex- | <u> </u> | | | | | | | | | | Ì | i | | |
| press | 27 | _ | _ | _ | _ | 27 | 8 | 19 | _ | | _ | | ' | - |
| Trump Shuttle dba USAir Shuttle | 0 | 0 | | _ | | _ | _ | _ | _ | _ | | | | _ |
| Ultrair Inc dba Airline Of The Ameri- | | i i | | | | | | | | | | | | |
| cas | 6 | 6 | _ | 6 | _ | - | _ | _ | | _ | | | | _ |
| United Airlines | 542 | 542 | 55 | 153 | 334 | | ! | | | _ | _ | _ | | |
| United Parcel Service | 149 | 149 | 63 | 56 | 30 | | | <u> </u> | | _ | _ | _ | | |
| USAir Inc | 442 | 442 | _ | 8 | 434 | | | _ | | _ | | _ | _ | |
| Viking Intern Airl | 4 | 1 | _ | _ | 1 | 1 | - | 1. | 2 | _ | - | 2 | _ | |
| Viscount Air Service | 10 | 10 | _ | | 10 | _ | | _ | | | _ | _ | | _ |
| Westair Commuter dba United Ex- | | | | | | | | | | | | | | |
| press | 52 | 3 | 3 | | _ | 49 | _ | 49 | _ | | _ | | | |
| Westates Airlines | 5 | _ | _ | _ | | 2 | | 2 | 3 | | | 3 | | |
| Wings West Airlines dba American | | | ' I | | | _ | | _ | _ | | } | _ | ١., | |
| Eagle | 42 | _ | J | _ | | 42 | | 42 | _ | | _ | | | _ |
| World Airways | 13 | 13 | | 13 | _ | _ | | | _ | | i —i | | _ | _ |
| Worldwide Airline Service dba Lei- | } | , | | i - | ١ , | | | | ļ | | | |] | |
| sure Air | 3 | 3 | _ | | 3 | | | | _ | _ | _ | _ | | _ |
| Wrangler Aviation dba Blue Bell | 6 | 1 | | 1 | | 5 | 5 | | | | _ | _ | | |
| Zantop Intern Airl | 33 | 2 | 2 | | | 22 | 21 | 1 | 9 | | _ | 9 | ; | _ |

Note: Air Carrier aircraft are aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircraft —more than 30 seats) and 14 CFR 135 (small aircraft —30 seats or less). This definition is more encompassing than that used in the FAA Aviation Forecast —jet aircraft, 60 seats or more, carrying passengers or cargo for compensation or hire.

Source: Vital Information System

TABLE 5.5 TOTAL SMALL AIRCRAFT REPOTED IN OPERATION BY COMMUTER AIR CARRIERS AND ON—DEMAND AIR TAXIS BY CARRIER, AND BY ENGINE TYPE 1992

| | T-1-1 AU | | Turt | ojet | | T | urbopro | Р | | | Piston | | | Dotan: |
|--|-----------------------|--------------|-----------|------------|------------|----------|------------|------------|-------|-----------|------------|------------|------------|----------------|
| Name of Carrier | Total All Aircraft | Total | 4 eng. | 3- eng. | 2- eng. | Total | 4- eng. | 2- eng. | Total | 4 eng. | 3- eng. | 2~ eng. | 1- eng. | Rotary Wing |
| Total | 1,283 | 7 | _ | | 7 | 637 | _ | 637 | 592 | _ | 5 | 228 | 359 | 47 |
| 40 Mile Air Ltd | 8 | l — | _ | _ | | _ | <u> </u> | _ | 3 | _ | l — | | 3 | 5 |
| Air Alpha Inc | | | _ | | _ | 2 | | 2 | | _ | l — | l — | _ | _ |
| Air Cape dba Nantucket Airlines | 5 | i — | _ | _ | | _ | | _ | 5 | _ | <u> </u> | 5 | . _ | - |
| Air LA Inc | 2 | | _ | | _ | 2 | _ | 2 | | - | I - | _ | _ | _ |
| Air Midwest Inc dba USAir Express | 14 | ! | _ | <u> </u> | _ | 14 | - | 14 | | _ | l – | _ | l – | _ |
| Air Molokai Inc | 3 | | _ | | _ | | _ | _ | 3 | _ | | 3 | | _ |
| Air Nevada Airlines | 12 | l — | _ | l — | _ | <u> </u> | - | <u> </u> | 12 | | l – | 9 | 3 | _ |
| Air Sunshine Inc | 5 | | _ | — | _ | - | _ | - | 5 | _ | l – | 5 | _ | l – |
| Air Vegas Inc | 25 | ' | _ | | _ | 2 | - | 2 | 23 | _ | l — | 19 | 4 | l – |
| Air Wise Aviation | | _ | _ | l — | | 1 | _ | 1 | 8 | _ | _ | 3 | 5 | |
| Airvantage | 6 | — | _ | (⊸ | _ | 6 | – | 6 | | _ | i – | l – | | _ |
| Airways Intern. Inc | 31 | _ | | _ | | 2 | _ | 2 | 29 | _ | | 29 | | _ |
| Alaska island Air | 6 | _ | _ | _ | _ | - | Í — | (— i | 6 | | i — | [1 | 5 | _ |
| Alaska Juneau Aero. dba Wings of | ļ |] | | j ' | | | | | | | ŀ | | · | |
| Alaska | 21 | _ | _ | _ | _ | - | — | [| 21 | _ | Í | [<u> </u> | 21 | _ |
| Alliance Air Inc | 2 | ļ — | _ | J — | _ | 2 | | 2 | | _ | | | _ | |
| Aloha island Air dba Princeville Air- | | | | | | | | | | | | ſ | i ! | |
| ways | 8 | l — | _ | - | _ | 8 | } — | 8 | - | _ |) — |] | - | _ |
| Aipha Aviation Inc | 3 | | | _ | | 3 | - | 3 | | _ | _ | l — | | _ |
| Alpine Aviation Inc | 17 | - | _ | | _ | 12 | _ | 12 | 5 | _ | J | 1 | 4 | _ |
| Arctic Circle Air | 13 | | _ | l — | _ | 3 | | 3 | 10 | _ | l – | 1 | 9 | _ |
| Arizona Flight Sch. dba Arizona Pa- | ł | } | , | | ١ , | |] | l : | | |] |] | } | |
| cific Airways | 8 | | _ | _ | - | 3 | <u></u> | 3 | 5 | _ | _ | 2 | 3 | _ |
| Aviation Associates | 12 | | _ | _ | _ | 12 | _ | 12 | _ | _ | _ | ! — | _ | _ |
| Aviation Services dba Freedom Air . | 9 | \' | _ | _ | _ | 1 | | 1 | 8 | _ | | 2 | 6 | _ |
| Aviation Services West dba Lake | | i i | | | | | | | | | | | | |
| Powell Air Service | 39 | <u> </u> | _ | _ | _ | 8 | | 8 | 31 | _ | _ | <u> </u> | 31 | _ |
| Baker Aviation Inc | 10 | i | | _ | _ | 2 | _ | 2 | 8 | _ | _ | 2 | 6 | |
| Bankair Inc | | 3 | | _ | 3 | 9 | | 9 | 10 | _ | | 9 | 1 | _ |
| Barrow Air Inc | , | i | _ | | _ | _ | _ | | 2 | _ | | l — | 2 | |
| Beaver Aviation Serv | 6 | | | _ | _ | 2 | | 2 | 4 | | - | 3 | 1 | _ |
| Bellair | 2 | | _ | - | _ | | _ | _ | 2 | _ | | _ | 2 | _ |
| Bemidji Aviation Ser | 22 | <u> </u> | _ | _ | _ | 12 | _ | 12 | 10 | _ | - | 6 | 4 | |
| Bering Air Inc | | | | _ | _ | 7 | _ | 7 | 9 | _ | | 4 | 5 | _ |
| Bidzy Ta Hot Aana Co dba Tanana Air Service | 7 | _ | | _ | _ | 2 | _ | 2 | 5 | _ | | _ | 5: | _ |
| Big Sky Transport dba Northwest Airlink | | | _ | | | 4 | _ | 4 | 2 | | _ | 2 | | |
| Cape Smythe Air Serv | 19 | | _ | | | 10 | | 10 | 9 | | | ا ً_ | 9 | |
| Champlain Enterprise dba | | | _ | | | | | | 9 | _ | | | 3 | _ |
| Commutair/USAir Express | 31 | 1 | _ | - | 1 | 30 | _ | 30 | - | _ | - | _ | - | |
| Charles J Colgan | 4 | _ | | _ | | 4 | | 4 | _ | _ | - | _ | _ | _ |
| Chautauqua Airlines dba USAir Ex- | | l i | | · | | | | | | | | ļ | | |
| press | 16 | - | _ | _ | - | 16 | _ | 16 | | _ | | - | - | _ |
| Chester County Aviat | 9 | - | _ | - | _ | 6 | _ | 6 | 3 | _ | | 1 | 2 | ı – |
| Chicago Air Taxi Inc dba Helicopter | | Ì | | | | | | | 1 | | | | | |
| Shuttle | 2 | - | | _ | | _ | | _ | | _ | _ | - | _ | 2 |
| Christman Air System | | - | _ | | _ | 1 | _ | 1 | - | | | - | - | _ |
| Coastal Air Trans. | 1 | (- <u> </u> | _ | _ | _ | _ | - | _ | 1 | | - | 1 1 | - | |
| Columbia Pacific Air | | ~ | _ | _ | | - | _ | _ | 1 | | - | 1 |] | _ |
| Conquest Airlines | 7 | | _ | | - | 6 | | 6 | 1 | | - | 1 | - | _ |
| Direct Air Inc | 5 | - | | | | 5 | _ | 5 | | _ | _ | - |) —I | _ |

TABLE 5.5—Continued TOTAL SMALL AIRCRAFT REPOTED IN OPERATION BY COMMUTER AIR CARRIERS AND ON—DEMAND AIR TAXIS BY CARRIER, AND BY ENGINE TYPE 1992

| • | Total All | | Turt | ojet | | T | urbopro | p | ĺ | | Piston | | | D-1 |
|---------------------------------------|-----------|--------------|------------|------------|-------------|----------|------------|------------|-------|------------|------------|-------------|------------|----------------|
| Name of Carrier | Aircraft | Total | 4- eng. | 3- eng. | 2~ eng. | Total | 4- eng. | 2- eng. | Total | 4- eng. | 3 eng. | 2~ eng. | 1- eng. | Rotary Wing |
| Exec Express II Inc | 8 | _ | | _ | | 8 | | 8 | - | | _ | _ | - | |
| Express Airlines dos Northwest Air- | 1 | 1 | | | | | | | , | | } | } | | |
| link | 62 | _ | _ | _ | | 62 | _ | 62 | ~ | _ | _ | _ | - | _ |
| Flamenco Airways Inc | 12 | ! | | | | | _ | _ | 12 | _ | 1 | 10 | 1 | _ |
| Florida Air Inc | 1 | | _ | _ | _ | 1 | _ | 1 | li | _ | | [| ' | _ |
| Flying Boat Inc dba Chalk's Int'l Air | 5 | | _ | | _ | 5 | _ | 5 | l | _ | — | _ | - | |
| Frontier Service Inc | 10 | <u> </u> | _ | _ | | 8 | - | 8 | 2 | | | 1 | 1 | _ |
| GP Express Airlines | 13 | | _ | _ | _ | 12 | _ | 12 | 1 1 | _ | J | 1 1 | <u> </u> | - |
| Grand Airways dba National Air | 7 | l – | _ | | | 7 | _ | 7 | | _ | ' | l — | | _ |
| Grand Canyon Airline | 5 | | _ | _ | _ | 5 | _ | 5 | | | | ! —. | | |
| Great Lakes Aviation | 32 | — | _ | | | 27 | _ | 27 | 5 | _ | - | 3 | 2 | |
| Gulf Flite Center dba Skybus Ex- | İ | l | } | | | | | | | | ! | | , | |
| Press | 1 | | - | | | _ | _ | i — | 1 | | — | l — | 1 | _ |
| Gulfstream Int'l Air | | - | _ | | _ | 3 | _ | 3 | 6 | _ | | 6 | | |
| Hageland Aviation | | - | | _ | _ | _ | _ | l — | 12 | _ | | 2 | 10 | _ |
| Haines Airways Inc | | - | l – | | _ | 1 | | 1 | 5 | _ | | - | 5 | _ |
| Harbor Airlines Inc | 4 | - | _ | _ | _ | 4 | | 1 4 | | | | L _ | _ | |
| Horizon Air Inc dba Mohawk/Man- | i | İ | ł | | | | | | | | | | | |
| hattan Exps Air | 7 | 2 | _ | | 2 | 5 | _ | 5 | l | _ | l | _ | _ | _ |
| Hyannis Air Service | | l _ | _ | | _ | _ | _ | | 9 | _ | | 9 | l – | _ |
| Jet Express Inc dba TWA Express . | | _ | l – | | _ | 5 | _ | 5 | 1 | _ | _ | <u> </u> | 1 | _ |
| Jetstream Intern. dba USAir Ex- | ľ | i | Ì | ł | | 1 | | | | | ł | | · | İ |
| press | 33 | l _ | | l | _ | 33 | _ | 33 | l _ | _ | l | _ | ! <u> </u> | _ |
| Jib Inc dba Action Airlines | , | - | | | ' _' | 4 | _ | 4 | 5 | _ | | 2 | 3 | _ |
| Kenmore Air Habor | 14 | _ | l _ | _ | | | _ | | 14 | _ | | | 14 | |
| Kenosha Aero Inc | | | _ | | | _ | _ | ! i | 2 | _ | | 1 | 1 | _ |
| Ketchikan Air Servic | | l _ | | | | _ | _ | _ | 11 | _ | l | | 11 | _ |
| L A B Flying Service | | l' | | | _ | 1 | | 1 | 27 | _ | | 6 | 21 | 6 |
| Lake Union Air Serv | | _ | _ | | | 2 | | 2 | 8 | _ | l | | 8 | |
| Larrys Flying Servic | i | | _ | | _ | 7 | | 7 | 12 | _ | | 2 | 10 | _ |
| Las Vegas Airlines | | . _ ' | _ | | _ | 5 | _ | 5 | | _ | | | | _ |
| Loken Aviation Inc | 3 | [! | | _ | _ | _ | | l _ | l 3 | _ | | <u> </u> | 3 | |
| Ludiow Aviation | - | i _ | _ | _ | _ | _ | _ | | 3 | | | ! | 3 | _ |
| Mesa Airlines Inc dba United Ex- | ١ | 1 | | | | | | | ا ا | | • | 1 | J | |
| press | 72 | l _ | _ | | | 72 | _ | 72 | l | _ | l | | _ | _ |
| Midway Aviation Inc | l . | ' | _ | | _ | | _ | í <u>"</u> | 8 | _ | | 7 | 1 | _ |
| Montauk Caribbean dba Long Is- | • |] . | | | | | | | ļ ĭ | | | · / | ' | |
| land Airline | 6 | 1 | _ | | 1 | 4 | _ | 4 | [1 | | i i | 1 | ' | |
| New England Airlines | | J | _ | | | | | | اخ ا | | | 2 | 5 | |
| New York Helicopter dba National | · | | ! | | | - | | i | [1 | | | i - | | |
| Helicopter | 9 | l | _ | | | | | l! | l | _ | | | | 9 |
| Olson Air Service | | | _ | _ | | _ | | | 6 | | _ | 2 | 4 | 2 |
| Pacific Coast Airlin | 2 | | _ | | | 2 | _ | 2 | | _ | _ | | | _ |
| Pacific island Aviat | 8 | | | | | 2 | | 2 | 3 | | | 3 | | 3 |
| Papilion Airways Inc dba Grand | , , | | | | | . | | ا ا | ا ا | |] | ا | | |
| Canyon Helicopters | 14 | | _ | | | | | | | | | | _ | 14 |
| Peninsula Airways | | | | | | 13 | | 13 | 26 | | | 12 | 14 | |
| Precision Valley doa Northwest Air- | 38 | _ | | | _ | 13 | _ | 13 | 20 | _ | | '2 | '4 | _ |
| link | 15 | l: | l | | | 15 | | 15 |] | | | J i | | |
| R I C Inc dba Skymaster Air Taxi | 3 | | _ | | | 3 | _ | 3 | - | _ | - | - | _ | _ |
| ▼ | 7 | | _ | | | 4 | _ | 4 | 3 | _ | - | 2 | 1 | _ |
| Redwing Airways Inc | 15 | - | _ | ~ | _ | 4 | _ | 4 | 15 | | _ | 4 | 11 | _ |
| Ryan Air Service doa PHH Air | 15 | ∟ | | | | | | | 15 | | | 4 | 11 | _ |

TABLE 5.5—Continued TOTAL SMALL AIRCRAFT REPOTED IN OPERATION BY COMMUTER AIR CARRIERS AND ON—DEMAND AIR TAXIS BY CARRIER, AND BY ENGINE TYPE 1992

| | Total All | [| Turt | ojet | | T | urbopro | p | 1 | | Piston | | | 0-4 |
|-------------------------------------|-----------|----------|-----------|-----------|------------|-------|------------|------------|-------|------------|------------|------------|------------|----------------|
| Name of Carrier | Aircraft | Total | 4 eng. | 3 eng. | 2- eng. | Total | 4- eng. | 2- eng. | Total | 4- eng. | 3- eng. | 2- eng. | 1- eng. | Rotary Wing |
| Saber Aviation Inc | 4 | _ | _ | _ | | 1 | - | 1 | 3 | | _ | 3 | _ | |
| Safe Air internation dba Island | | | | | | | | | | | 1 | [| | 1 |
| Expesss | 3 | | _ | _ | _ | _ | | | 3 | _ | l – | 3 | _ | |
| Samoa Aviation | 3 | | - | | _ | 3 | _ | 3 | - | _ | l – | | _ | _ |
| Scenic Airlines | 18 | l — | | _ | _ | 18 | _ | 18 | | _ | l – | l _ | _ | _ |
| Sedona Air Center | 4 | | _ | _ | _ | _ | _ | _ | 4 | _ | J _ |] _ | 4 | _ |
| Skagway Air Service | 11 | - | _ | _ | _ | _ | _ | | 11 | _ | l – | 2 | 9 | |
| Sky One Express Airl | 3 | | | _ | | 3 | _ | з | _ | _ | | | | - |
| Skywest Airlines dba Western Ex- | | \ | | | | | | 1 | ĺ | | | l : | | |
| press | 51 | | _ | _ | _ | 51 | | 51 | L _ | _ | l | _ | _ | - |
| Southcentral Air | 20 | | | _ | _ | 10 | _ | 10 | 10 | _ | l _ | 1 | 9 | |
| Southeast Aviation Group | 2 | _ | _ | _ | _ | _ | _ | _ | 2 | _ | l – | | 2 | _ |
| Springdale Air Servi | 20 | | | _ | | 4 | _ | 4 | 16 | _ | | 16 | | |
| Stateswest Airlines dba USAir Ex- | | | | | | | | 1 | [| | | | | i |
| press | 11 | | | | | 11 | _ | 11 | _ | l _ | | _ | _ | _ |
| Saquan Air Service | 12 | l | _ | _ | _ | _ | | _ | 12 | _ | l _ | _ | 12 | _ |
| Satonduk Outfitters | 4 | | | | _ | _ | _ | _ | 4 | | _ | | 4 | |
| Srail Lake Flyin Ser dba Harbor Air | | | ŀ | | | | | ļ | | | <u> </u> | | | |
| Service | 5 | | _ | _ | _ | _ | _ | _ | 5 | _ | _ | _ | 5 | _ |
| Srans Executive Airl dba Trans | | | | | | | | | _ | | | | _ | |
| World Express | 3 | | _ | _ | _ | _ | _ | | 3 | _ | _ | 3 | _ | _ |
| Sropical Helicopter | 2 | | _ | | | _ | _ | _ | L _ | l _ | l — | _ | _ | |
| Vieques Air Link Inc | 6 | _ | l _, | | | _ | _ | | 6 | | . 3 | 3. | | _ |
| Village Aviation Inc | 10 | | | | _ | 3 | _ | 3 | 7 | _ | _ | _ | 7 | _ |
| Virgin Air Inc dba Air St Thomas | . 7 | | _ | _ | _ | _ | | | 7 | _ | 1 1 | 6 | | _ |
| Walkers Aviation Ser | 1 | _ | _ | | | 1 | _ | 1 | _ | | | _ | | _ |
| Warbelow Air Venture | 9 | | | | | 4 | _ | نه ا | 5 | _ | l _ | | 5 | |
| West isle Air | 6 | _ | _ | _ | | | _ | | 6 | | l _ | 1 | 5 | _ |
| WRA Inc | 10 | | | | | 5 | _ | 5 | 5 | _ | l _ | 3 | 2 | |
| Wright Air Service | 14 | _ | | _ | | 4 | | له | 6 | _ | ا _ | _ | 6 | |
| Yutana Airlines Inc | 9 | | | | _ | 1 | _ | 1 | 8 | | l _ | 1 | 7 | _ |
| Yute Air Alaska Inc | 21 | _ | | | _ | | _ | 1 | 20 | _ | l _ | | 20 | _ |

Note: Air Carrier aircraft are aircraft carrying passengers or cargo for compensation or hire under 14 CFR 121 (large aircraft —more than 30 seats) and 14 CFR 135 (small aircraft —30 seats or less). This definition is more encompassing than that used in the FAA Aviation Forecast —jet aircraft, 80 seats or more, carrying passengers or cargo for compensation or hire.

Source: Vital Information System

VI. U.S. CERTIFICATED AIR CARRIERS—OPERATING DATA

The traffic and financial data contained in this chapter include data for all U.S. Certificated Air Carriers—those holding a certificate issued under Section 401 of the Federal Aviation Act of 1958; and the commuter air carriers—those holding a certificate under Section 298C of the Federal Aviation Act of 1958.

The data are classified in two broad operational categories: "domestic" and "international". "Domestic" encompasses operations within and between the 50 states of the United States, the District of Columbia, the Commonwealth of Puerto Rico and the Virgin Islands. It also encompasses Canadian transborder operations and for certain carriers, Mexican transborder operations. All other categories are considered "international".

The certificated carriers are also grouped into "large" and "small" according to the size aircraft that the carrier operates. A "large" carrier is one that operates aircraft designed to have a maximum passenger seating capacity of 60 seats or more or a maximum payload capacity of 18,000 pounds or more, or conducts international operations. A "small" certificated carrier operates aircraft of less than 60 seats or a payload capacity of less than 18,000. The commuter carriers are grouped with the small certificated carriers. Note that these definitions for large and small aircraft differ from the definitions used in Chapter 5.

The large certificated air carriers are grouped according to their total operating revenue as listed below:

| Carrier Groups | Carriers with Annual Operating Revenues of: |
|----------------|---|
| Major | \$1,000,000,000+ \$100,000,000 - \$1,000,000,000 \$10,000,000 - \$99,999,999 0 - \$9,999,999 |

The tables in this chapter are divided into two groups: 6.1-6.15 cover the large carriers and 6.16-6.18 cover the small commuter and large certificated medium regional carriers. Please note that some large certificated medium regional carriers are included in both groups of tables. The information for the large air carriers was obtained from the following sources published by the Research & Special Programs Administration of the Department of Transportation.

Air Carrier Traffic Statistics compiled from RSPA Form 41 Schedules T-1(a), T-1(b) and T-1(c).

Air Carrier Financial Statistics compiled from RSPA Form 41 Schedules B-1 and P-1.

The information for the small certificated, commuter and large certificated medium regional carriers was obtained from:

Air Carrier Industry Scheduled Service Traffic Statistics: Medium Regional Section: compiled from RSPA Form 298C Schedules A-1 and T-1.

2929.FMT 04/29/93

TABLE 6.1 LARGE CERTIFICATED AIR CARRIERS 1991 AND 1992

MAJORS

| America West | | Northwest | | |
|----------------|---|--------------|------|---|
| American | | Pan Amercian | | |
| Continental | | Southwest | | |
| Delta | | Trans World | | |
| Eastern | | United | | |
| Federal Expres | s | US Air | | |
| | | | | _ |

NATIONALS

| Air Wisconsin | Midway |
|--------------------|-----------------------|
| Alaska | Midwest Express |
| Aloha | Southern Air |
| American Trans Air | Tower |
| Emery | United Parcel Service |
| Evergreen | USAir Shuttle |
| Hawaiian | Westair |
| Horizon Air | World |
| Markair | |

LARGE REGIONALS

| Air Transport Int'l | Key |
|---------------------|-------------------|
| American ıni'l | Kiwi |
| Amerijet | MGM Grand |
| Arrow | Northern Air |
| Aspen | Reeve |
| Braniff Int'l | Reno |
| Carnival | Rich |
| Challenge Air Cargo | Simmons |
| Executive Airlines | Sun Country |
| Express One | Trans Continental |
| Flagship | Trans States |
| Florida West | Zantop |

MEDIUM REGIONALS

| Aeriai | Million |
|-------------------------|--------------------|
| Airline of the Americas | North American |
| Airmark | Patriot |
| AV Atlantic | Private Jet |
| Buffalo | Ryan International |
| Casino Express | Sierra Pacific |
| Conner | Spirit Air |
| Fine Airlines | Trans Air Link |
| Great American | Universal |
| Int'l. Cargo Xpress | Wilbur's |
| Jet Fleet | Worldwide |
| Miami Air | Wrangler |

TABLE 6.2 TRAFFIC DATA, ALL SERVICES (SCHEDULED AND NONSCHEDULED) OF THE LARGE CERTIFICATED AIR CARRIERS 1991 AND 1992

| Troffic October | Total System 1 | | Domestic Operations | | International Operations | |
|--------------------------------------|----------------|-------------|---------------------|-------------|--------------------------|-------------|
| Traffic Category | 19912 | 19923 | 1991 2 | 19923 | 1991 2 | 19923 |
| Revenue Passenger Miles Flown (000) | 493,163,306 | 463,296,381 | 354,289,946 | 338,085,364 | 138,873,360 | 125,211,017 |
| Available Seat Miles (000) | 771,788,235 | 738,029,603 | 566,089,746 | 551,561,946 | 205,698,489 | 186,467,657 |
| Revenue Passenger Enplanements (000) | 483,040 | 461,202 | 436,101 | 417,419 | 46,939 | 43,783 |
| Revenue Ton Miles Flown (000) 1/ | 66,462,177 | 62,479,347 | 45,134,497 | 42,668,248 | 21,327,680 | 19,811,099 |
| Passenger | 49,318,055 | 46,329,643 | 35,428,994 | 33,808,540 | 13,889,061 | 12,521,103 |
| Freight | 15,079,800 | 14,245,126 | 8,137,481 | 7,448,256 | 6,942,319 | 6,796,870 |
| U.S. Mail | 2,064,337 | 1,904,764 | 1,568,036 | 1,411,643 | 496,301 | 493,121 |
| Foreign Mail | 0 | 0 | 0 | 0 | 0 | Ò |
| Revenue Aircraft Miles Flown (000) | 4,855,877 | 4,661,022 | 3,953,891 | 3,854,416 | 901,986 | 806,606 |

Details may not add to total due to rounding.
 Revised
 Preliminary

Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.3 REVENUE AIRCRAFT DEPARTURES, MILES AND HOURS FLOWN, AND AVERAGE SPEED IN DOMESTIC ALL SERVICES OF THE LARGE CERTIFICATED AIR CARRIERS 1983-1992

| Year | Revenue Aircraft Departures | Revenue Aircraft Miles Flown (000) | Revenue Aircraft Hours Flown | Average Airborne Speed (Miles Per Hour) |
|--------|-----------------------------------|--|------------------------------------|---|
| 1983 | 4,920,125 | 2,552,942 | 6,174,957 | 413 |
| 1984 | 5,358,454 | 2,875,402 | 6,970,886 | 412 |
| 1985 | 5,760,232 | 3,046,440 | 7,457,030 | 409 |
| 1986 | 6,336,150 | 3,421,492 | 8,223,615 | 416 |
| 1987 | 6,511,609 | 3,652,542 | 8,823,269 | 414 |
| 1988 | 6,607,067 | 3,738,242 | 9,135,430 | 409 |
| 1989 | 6,528,085 | 3.748,139 | 9.222.252 | 406 |
| 1990 | 6,756,704 | 3,963,263 | 9,717,375 | 408 |
| 1991 1 | 6,622,847 | 3,854,416 | 9,492,561 | 406 |
| 19922 | 6,695,742 | 3,953,891 | 9,658,470 | 409 |

Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.4 REVENUE AIRCRAFT DEPARTURES, MILES AND HOURS FLOWN, AND AVERAGE SPEED IN INTERNATIONAL ALL SERVICES OF THE LARGE CERTIFICATED AIR CARRIERS 1983-1993

| Year | Revenue Aircraft Departures | Revenue Aircraft Miles Flown (000) | Revenue Aircraft Hours Flown | Average Airborne Speed (Miles Per Hour) |
|--------|-----------------------------------|--|------------------------------------|---|
| 1983 | 243,029 | 362,994 | 740,896 | 490 |
| 1984 | 241,087 | 388,794 | 792,267 | 491 |
| 1985 | 244,888 | 415,355 | 846,197 | 491 |
| 1986 | 271,735 | 451,338 | 923,641 | 489 |
| 1987 | 311,411 | 529,786 | 1,082,189 | 490 |
| 1988 | 354,463 | 615,270 | 1,260,927 | 488 |
| 1989 | 391,786 | 693,887 | 1,426,410 | 486 |
| 1990 | 419,522 | 760,338 | 1,556,760 | 488 |
| 1991 1 | 418,200 | 806,606 | 1,644,917 | 490 |
| 1992 | 438,135 | 901,986 | 1,820,969 | 495 |

¹ Revised. ² Preliminary.

Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.5 TOTAL TON-MILES AVAILABLE IN ALL SERVICES OF THE LARGE CERTIFICATED AIR CARRIERS 1983-1992

(Thousands of Ton-Miles)

| | Large | Certificated Air Carr | iers | |
|--------|---------------|------------------------|-----------------------------|--|
| Year | Total System: | Domestic Operations | International Operations | |
| 1983 | 68,778,295 | 52,724,653 | 15,920,720 | |
| 1984 | 76,298,288 | 58,942,974 | 17,355,314 | |
| 1985 | 80,565,182 | 61,337,807 | 19,227,375 | |
| 1986 | 90,243,958 | 69,771,737 | 20,472,221 | |
| 1987 | 99,152,795 | 75,741,397 | 23,411,398 | |
| 1988 | 105,272,555 | 78,264,976 | 27,107,579 | |
| 1989 | 109,397,126 | 78,955,003 | 30,442,123 | |
| 1990 | 117,112,475 | 83,354,510 | 33,757,965 | |
| 1991 2 | 116,374,506 | 80,879,199 | 35,495,307 | |
| 19923 | 121,842,799 | 83,695,875 | 38,146,924 | |

¹ Categories may not add to total due to rounding.
2 Revised.
3 Preliminary.
Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.6 REVENUE TON-MILES FLOWN IN ALL SERVICES BY LARGE CERTIFICATED AIR CARRIERS 1983-1992

(Thousands of Tons)

| | Large Certificated Air Carriers | | | | | |
|--------|---------------------------------|------------------------|-----------------------------|--|--|--|
| Year | Total System 1 | Domestic Operations | International Operations | | | |
| 1983 | 38,011,227 | 28,271,465 | 9,624,208 | | | |
| 1984 | 41,277,948 | 30,561,436 | 10,716,512 | | | |
| 1985 | 44,154,779 | 32,939,216 | 11,215,563 | | | |
| 1986 | 48,883,854 | 37,148,059 | 11,735,795 | | | |
| 1987 | 54,917,632 | 40,509,782 | 14,407,850 | | | |
| 1988 | 58,397,186 | 41,598,662 | 16,798,524 | | | |
| 1989 | 61.095.371 | 42,475,761 | 18,619,610 | | | |
| 1990 | 63,627,077 | 43,651,162 | 19,975,915 | | | |
| 1991 2 | 62,479,347 | 42,668,248 | 19,811,099 | | | |
| 19923 | 66,462,177 | 45,134,497 | 21,327,680 | | | |

¹ Categories may not add to total due to rounding.
2 Revised.
3 Preliminary.
Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.7 PASSENGER OPERATIONS IN SCHEDULED DOMESTIC OPERATIONS OF THE LARGE CERTIFICATED AIR CARRIERS 1983-1992

| Year | Revenue Passenger Enplanements (000) | Revenue Passenger Miles (000) | Available Seat-Miles (000) | Revenue Passenger Load Factor ¹ Percent | Average On-line Passenger Trip Length (Miles) | Average Passenger Revenue Per Passenger Miles (Cents) |
|---------|---|-------------------------------------|-------------------------------|--|---|---|
| 1983 | 296,721 | 226,908,925 | 379,150,158 | 59.8 | 765 | 12.13 |
| 1984 | 321,047 | 243,692,254 | 422,506,609 | 57.7 | 759 | 12.79 |
| 1985 | 357,109 | 270,584,011 | 445,825,864 | 60.7 | 758 | 12.32 |
| 1986 | 393,864 | 302,089,903 | 497,990,815 | 60.7 | 767 | 11.18 |
| 1987 | 416,831 | 324,637,336 | 526,958,361 | 61.6 | 779 | 11.42 |
| 1988 | 419,210 | 329,309,489 | 536,662,591 | 61.4 | 786 | 12.31 |
| 1989 | 416,331 | 329,975,206 | 530,079,041 | 62.3 | 792 | 13.08 |
| 1990 | 423,565 | 340,230,892 | 563,064,938 | 60.4 | 803 | 13.08 |
| 1991 2/ | 412,360 | 332,565,881 | 543,637,976 | 61.2 | 806 | 13.24 |
| 1992 3/ | 429,900 | 347,502,877 | 557,103,106 | 62.4 | 808 | 12.86 |

Percent revenue passenger-miles of available seat-miles.
 Revised.
 Preliminary.

Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.8 PASSENGER OPERATIONS IN SCHEDULED INTERNATIONAL OPERATIONS OF THE LARGE CERTIFICATED AIR CARRIERS 1983-1992

| Year | Revenue Passenger Enplanements (000) | Revenue Passenger Miles (000) | Available Seat-Miles (000) | Revenue Passenger Load Factor ¹ Percent | Average On- line Passenger Trip Length (Miles) | Average Passenger Revenue Per Passenger Miles (Cents) |
|--------|---|-------------------------------------|-------------------------------|--|--|---|
| 1983 | 21,917 | 54,920,223 | 85,387,821 | 64.3 | 2,506 | 10.21 |
| 1984 | 23,636 | 61,423,601 | 92,816,730 | 66.2 | 2,599 | 9.38 |
| 1985 | 24,913 | 65,819,010 | 101,962,568 | 64.6 | 2,642 | 9.80 |
| 1986 | 25,082 | 64,455,952 | 109,445,032 | 58.9 | 2,570 | 10.16 |
| 1987 | 30,847 | 79,834,148 | 121,762,577 | 65.6 | 2,588 | 9.82 |
| 1988 | 35,404 | 93,992,070 | 140,139,737 | 67.1 | 2,655 | 10.40 |
| 1989 | 37,361 | 102,739,103 | 154,296,835 | 66.6 | 2,750 | 10.36 |
| 1990 | 41,995 | 117,695,394 | 170,309,955 | 69.1 | 2,803 | 10.83 |
| 1991 2 | 39,941 | 115,388,948 | 171,561,164 | 67.3 | 2,889 | 11.32 |
| 19923 | 43,405 | 130,578,241 | 194,712,031 | 67.1 | 3,008 | 11.57 |

Percent revenue passenger-miles of available seat-miles.
 Revised.
 Preliminary.
 Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.9 REVENUE AIRCRAFT-MILES FLOWN IN ALL SERVICES OF LARGE CERTIFICATED AIR CARRIERS 1983-1992

(Thousands of Miles)

| Year | Total 1 | Domestic Operations | International Operations |
|--------|-----------|------------------------|-----------------------------|
| 1983 | 2,922,583 | 2,552,942 | 362,994 |
| 1984 | 3,264,196 | 2,875,402 | 388,794 |
| 1985 | 3,461,795 | 3,046,440 | 415,355 |
| 1986 | 3,872,830 | 3,421,492 | 451,338 |
| 1987 | 4,182,327 | 3,652,542 | 529,786 |
| 1988 | 4,353,512 | 3,738,242 | 615,270 |
| 1989 | 4,442,026 | 3,748,139 | 693,887 |
| 1990 | 4,723,601 | 3,963,263 | 760,338 |
| 1991 2 | 4,661,022 | 3,854,416 | 806,606 |
| 19923 | 4,855,877 | 3,953,891 | 901,986 |

Details may not add to total due to rounding.
 Revised.
 Preliminary.
 Source: Air Carrier Traffic Statistics - RSPA

TABLE 6.10 OPERATING REVENUE OF DOMESTIC OPERATIONS, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MAJOR, NATIONAL, AND LARGE REGIONAL GROUPS 1983-1992

(Thousands of Dollars)

| | Total Operating Re | | Passen | ger | U.S. M | | Expre | 86 | Excess Ba | ggage | Other | |
|--------|-----------------------|---------|------------|---------|--------------|---------|---------------|---------|-----------|---------|-----------|---------|
| Year | Obeletish us | | 4- | | (including S | (uoway) | and Freigl | nt] | | | | |
| | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent |
| 1983 | 31,014,393 | 100.0 | 27,519,079 | 88.7 | 537,234 | 1.7 | 1,601,895 | 5.2 | 51,967 | 0.2 | 1,304,221 | 4.2 |
| 1984 | 35,393,945 | 100.0 | 31,436,951 | 88.8 | 559,138 | 1.6 | 1,715,979 | 4.8 | 70,032 | 0.2 | 1,611,842 | 4.6 |
| 1985 | 37,628,540 | 100.0 | 33,343,005 | 88.6 | 740,384 | 1.9 | 1,580,914 | 4.2 | 78,113 | 0.2 | 1,886,123 | 5.0 |
| 1986 | 41,000,506 | 100.0 | 33,813,923 | 82.5 | 682,643 | 1.7 | 4,278,008 | 10.4 | 85,438 | 0.2 | 2,140,496 | 5.2 |
| 1987 | 45,657,800 | 100.0 | 37,492,065 | 82.2 | 706,178 | 1.5 | 4,951,924 | 10.9 | 66,756 | 0.1 | 2,440,877 | 5.3 |
| 1988 | 50,187,181 | 100.0 | 41,001,573 | 81.7 | 791,929 | 1.6 | 5,807,058 | 11.6 | 71,781 | 0.1 | 2,514,841 | 5.0 |
| 1989 | 54,314,210 | 100.0 | 43,670,025 | 80.4 | 770,333 | 1.4 | 5,408,336 | 10.0 | 69,761 | 0.1 | 4,395,754 | 8.1 |
| 1990 | 57,994,041 | 100.0 | 46,282,413 | 79.8 | 749,428 | 1.3 | 4,275,637 | 7.4 | 76,129 | 0.1 | 6,610,433 | 11.4 |
| 1991 2 | 56,230,433 | 100.0 | 44,593,991 | 79.3 | 737,459 | 1.3 | 4,486,691 | 8.0 | 78,083 | 0.1 | 6,334,209 | 11.3 |
| 19923 | 57,628,804 | 100.0 | 45,227,769 | 78.5 | 933,899 | 1.6 | 4,648,835 | 8.1 | 87,259 | 0.2 | 6,731,042 | 11.7 |

Details may not add to total due to rounding.
 Revised.
 Preliminary.

Source: Air Carrier Financial Statistics, Table 1 -- RSPA

TABLE 6.11 OPERATING EXPENSES OF DOMESTIC OPERATIONS, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MAJOR, NATIONAL, AND LARGE REGIONAL GROUPS 1983-1992

(Thousands of Dollars)

| | Total Operating Exp | | | | vircraft Operating | Expenses | | | Ground and Expen | | |
|--------|------------------------|---------|-------------|---------|--------------------|----------|-----------------------------|---------|---------------------|---------|---|
| Year | Amount | Percent | Flight Open | ations | Mainten | ince | Deprecia and Amortiza | | Amount | Percent | Net Operating Income or Loss Amount |
| | | | Amount | Percent | Amount | Percent | Amount | Percent | | | |
| 1983 | 31,185,661 | 100.0 | 11,370,479 | 36.5 | 2,877,991 | 9.2 | 2,107,283 | 6.8 | 14,829,909 | 47.6 | (171,268) |
| 1984 | 33,811,742 | 100.0 | 12,160,526 | 36.0 | 3,175,865 | 9.4 | 2,223,275 | 6.6 | 16,252,075 | 48.1 | 1,582,203 |
| 1985 | 36,610,744 | 100.0 | 12,684,018 | 34.7 | 3,604,447 | 9.8 | 2,318,066 | 6.3 | 18,004,213 | 49.2 | 1,017,796 |
| 1986 | 39,934,036 | 100.0 | 11,368,346 | 28.5 | 4,475,473 | 11.2 | 2,652,497 | 6.6 | 21,437,719 | 53.7 | 1,066,470 |
| 1987 | 43,925,149 | 100.0 | 12,508,716 | 28.5 | 4,950,558 | 11.3 | 2,854,806 | 6.5 | 23,611,068 | 53.7 | 1,732,650 |
| 1988 | 47,738,808 | 100.0 | 13,175,525 | 27.6 | 5,642,790 | 11.8 | 2,977,236 | 6.2 | 25,943,257 | 54.4 | 2,448,873 |
| 1989 | 52,459,535 | 100.0 | 14,749,292 | 28.1 | 6,184,193 | 11.8 | 3,077,602 | 5.9 | 28,448,448 | 54.2 | 1,854,675 |
| 1990 | 58,983,230 | 100.0 | 18,166,482 | 30.8 | 6,921,512 | 11.7 | 3,272,818 | 5.5 | 30,622,417 | 51.9 | (989,189) |
| 1991 2 | 56,758,157 | 100.0 | 16,830,585 | 29.7 | 6,682,050 | 11.8 | 3,216,986 | 5.7 | 30,028,538 | 52.9 | (527,724) |
| 19923 | 58,724,907 | 100.0 | 17,154,393 | 29.2 | 6,865,669 | 11.7 | 3,338,850 | 5.7 | 31,365,996 | 53.4 | (1,096,105) |

Details may not add to total due to rounding.
 Revised.
 Preliminary

Source: Air Carrier Financial Statistics, Table 1 -- RSPA

TABLE 6.12 OPERATING REVENUE OF INTERNATIONAL OPERATIONS, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MAJOR, NATIONAL, AND LARGE REGIONAL GROUPS 1983-1992

(Thousands of Dollars)

| | Total Opera | | Passenge | M | U.S. Ma (Including S | | Express and Freight | | Excess Be | 00000 | Other | |
|--------|-------------|--------------|------------|--------------|-------------------------|--------------|---------------------|--------------|-----------|--------------|-----------|--------------|
| Year | Amount | Per- cent | Amount | Per- cent | Amount | Per- cent | Amount | Per- cent | Amerant | Per- cent | Amount | Per- cent |
| 1983 | 7,163,275 | 100.0 | 5,604,902 | 78.2 | 152,455 | 2.1 | 999,405 | 14.0 | 23,012 | 0.3 | 383,502 | 5.4 |
| 1984 | 7,974,706 | 100.0 | 6,074,406 | 76.2 | 157,703 | 2.0 | 1,169,259 | 14.8 | 27,447 | 0.3 | 545,892 | 6.8 |
| 1985 | 8,302,279 | 100.0 | 6,451,324 | 77.7 | 160,543 | 1.9 | 1,130,050 | 13.6 | 27,832 | 0.3 | 531,528 | 6.4 |
| 1986 | 8,621,149 | 100.0 | 6,550,550 | 76.0 | 153,627 | 1.8 | 1,451,488 | 16.8 | 28,254 | 0.3 | 437,231 | 5.1 |
| 1987 | 10,924,837 | 100.0 | 8,374,295 | 76.7 | 180,052 | 1.6 | 1,782,832 | 16.3 | 32,688 | 0.3 | 554,971 | 5.1 |
| 1988 | 13,401,710 | 100.0 | 10,356,637 | 77.3 | 183,251 | 1,4 | 2,150,132 | 16.0 | 39,285 | 0.3 | 672,405 | 5.0 |
| 1989 | 14,910,912 | 100.0 | 11,181,198 | 75.0 | 188,284 | 1.3 | 2,416,980 | 16.2 | 46,759 | 0.3 | 1,077,692 | 7.3 |
| 1990 | 17,990,355 | 100.0 | 13,467,960 | 74.9 | 223,840 | 1.2 | 2,601,668 | 14.5 | 43,244 | 0.2 | 1,653,644 | 9.2 |
| 1991 2 | 18,928,061 | 100.0 | 14,102,721 | 74.5 | 222,833 | 1.2 | 3,134,202 | 16.6 | 49,584 | 0.3 | 1,418,721 | 7.5 |
| 19923 | 20,490,267 | 100.0 | 15,663,944 | 76.4 | 243,980 | 1.2 | 2,988,295 | 14.6 | 46,702 | 0.2 | 1,547,347 | 7.6 |

¹ Details may not add to total due to rounding. 2 Revised.

Source: Air Carrier Financial Statistics, Table 1 -- RSPA

TABLE 6.13 OPERATING EXPENSES OF INTERNATIONAL OPERATIONS, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MAJOR, NATIONAL, AND LARGE REGIONAL GROUPS 1983-1992

(Thousands of Dollars)

| | Total | | | | Aircraft Operating | Expenses | | | Ground and | | |
|--------|---------------|---------|-------------|---------|--------------------|----------|-----------------------------|---------|-----------------|---------|---|
| Year | Operating Exp | Percent | Flight Open | ations | Maintena | nce | Deprecia and Amortiza | | Expen Amount | Percent | Net Operating Income or Loss Amount |
| | | | Amount | Percent | Amount | Percent | Amount | Percent | | | |
| 1983 | 6,692,776 | 100.0 | 2,490,076 | 37.2 | 547,741 | 8.2 | 388,708 | 5.8 | 3,266,252 | 48.8 | 470,499 |
| 1984 | 7,484,679 | 100.0 | 2,628,664 | 35.1 | 676,950 | 9.0 | 445,857 | 6.0 | 3,733,208 | 49.9 | 490,028 |
| 1985 | 7,983,705 | 100.0 | 2,738,439 | 34.4 | 768,018 | 9.6 | 481,560 | 6.0 | 3,995,687 | 50.0 | 318,574 |
| 1986 | 8,458,084 | 100.0 | 2,401,911 | 28.4 | 900,784 | 10.7 | 517,524 | 6.1 | 4,637,866 | 54.8 | 163,066 |
| 1987 | 10,226,388 | 100.0 | 2,836,095 | 27.7 | 1,095,635 | 10.7 | 533,079 | 5.2 | 5,761,579 | 56.4 | 698,450 |
| 1988 | 12,403,323 | 100.0 | 3,230,335 | 26.1 | 1,331,687 | 10.7 | 617,734 | 5.0 | 7,223,567 | 58.2 | 998,388 |
| 1989 | 14,953,533 | 100.0 | 3,918,537 | 26.2 | 1,723,953 | 11.5 | 746,047 | 5.0 | 8,564,996 | 57.3 | (42,620) |
| 1990 | 18,914,480 | 100.0 | 5,453,830 | 28.8 | 2,051,246 | 10.8 | 886,735 | 4.7 | 10,522,670 | 55.6 | (924,123) |
| 1991 2 | 20,185,077 | 100.0 | 5,636,310 | 27.9 | 2,152,099 | 10.7 | 892,025 | 4.4 | 11,504,643 | 57.0 | (1,257,016) |
| 19923 | 21,767,130 | 100.0 | 5,837,911 | 26.8 | 2,144,162 | 9.9 | 1,033,166 | 4.7 | 12,751,890 | 58.6 | (1,276,862) |

Details may not add to total due to rounding.
 Revised.
 Preliminary.

Source: Air Carrier Financial Statistics, Table 1 -- RSPA

TABLE 6.14 OPERATING REVENUE, SYSTEM, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MEDIUM REGIONAL GROUP 1983-1992

(Thousands of Dollars)

| y | Total | | Scheduled F | assenger | Scheduled | Other | Non Schedul | ed Service | Subsi | dy | Othe Transport F | r Related |
|--------------------------|---------|---------|-------------|----------|-----------|---------|-------------|------------|--------|---------|---------------------|--------------|
| 984 985 986 987 | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Percent |
| 1983 | 108,082 | 100.0 | 19,126 | 17.7 | 9,897 | 9.2 | 73,469 | 68.0 | 2,132 | 2.0 | 3,457 | 3.2 |
| 1984 | 159,837 | 100.0 | 61,966 | 38.8 | 7,063 | 4.4 | 83,249 | 52.1 | 1,561 | 1.0 | 5,998 | 3.7 |
| 1985 | 150,754 | 100.0 | 38,045 | 25.2 | 19,467 | 12.9 | 89,863 | 59.6 | . 0 | 0.0 | 3,379 | 2.2 |
| 1986 | 81,971 | 100.0 | 10,576 | 12.9 | 43 | 0.0 | 61,729 | 75.4 | 0 | 0.0 | 9,624 | 11.7 |
| 1987 | 114,593 | 100.0 | 6,845 | 6.0 | 4,521 | 3.9 | 85,406 | 74.5 | o i | 0.0 | 17.821 | 15.6 |
| 1988 | 70,035 | 100.0 | 0 | 0.0 | 716 | 1.1 | 65,850 | 94.0 | o | 0.0 | 3,470 | 5.0 |
| 1989 | 90,733 | 100.0 | 5,773 | 6.4 | 7,494 | 8.3 | 64,392 | 70.9 | 31 | 0.0 | 13,042 | 14.4 |
| 1990 | 82,133 | 100.0 | 3.040 | 3.7 | 6,112 | 7.4 | 68,667 | 83.6 | o | 0.0 | 4,314 | 5.3 |
| 1991 2 | 75,741 | 100.0 | 0 | 0.0 | 10,723 | 14.2 | 59,626 | 78.7 | 1,048 | 1.4 | 4,344 | 5.7 |
| 19923 | 216,797 | 100.0 | 15,543 | 7.2 | 4,634 | 2.1 | 188,005 | 86.7 | 1.228 | 0.6 | 7,386 | 3.4 |

Details may not add to total due to rounding

Source: Air Carrier Financial Statistics, Table 3 -- RSPA

Note: Wide fluctuations in total revenues and expenses are caused by fluctuations in the number of medium regional carriers. Some have been upgraded to large regional carriers and some have gone out of business. For list of medium regional carriers see Air Carrier Financial Statistics for year in question.

TABLE 6.15 OPERATING EXPENSES, SYSTEM, ALL SERVICES LARGE CERTIFICATED AIR CARRIERS MEDIUM REGIONAL GROUP 1983–1992

(Thousands of Dollars)

| | Tota Operating E | | Flying Ope | erations | Mainten | ance | Gene | | Depreci | | Transport F | Related |
|--------|---------------------|----------|------------|----------|---------|----------|----------|---------|-----------------|---------|-------------|---------|
| Year | Operating E | xheuses. | A | | | D | Administ | | and Amoritiz | | | |
| | Amount | Percent | Amount | Percent | Amount | Percent | Amount | Fercent | Amount | Percent | Amount | Percent |
| 1983 | 111,713 | i00.0 | 68,130 | 61.0 | 17,693 | 15.8 | 18,327 | 16.4 | 7,353 | 6.6 | 210 | 0.2 |
| 1984 | 159,680 | 100.0 | 89,995 | 56.4 | 21,572 | 13.5 | 37,866 | 23.7 | 9,885 | 6.2 | 361 | 0.2 |
| 1985 | 151,527 | 100.0 | 79,920 | 52.8 | 22,585 | 14.9 | 42,703 | 28.2 | 5,179 | 3.4 | 1,140 | 0.7 |
| 1986 | 87,359 | 100.0 | 45,435 | 52.0 | 14,515 | 16.6 | 17,436 | 20.0 | 2,616 | 3.0 | 7,356 | 8.4 |
| 1987 | 120,019 | 100.0 | 56,061 | 46.7 | 25,533 | 21.3 | 27,351 | 22.8 | 6,269 | 5.2 | 4,803 | 4.0 |
| 1988 | 76,823 | 100.0 | 32,629 | 42.5 | 18,191 | 23.7 | 18,779 | 24.4 | 5,731 | 7.5 | 1,494 | 1.9 |
| 1989 | 91.518 | 100.0 | 43,560 | 47.6 | 15,469 | 16.9 | 21,400 | 23.4 | 1,214 | 1.3 | 9,876 | 10.8 |
| 1990 | 87,081 | 100.0 | 51,067 | 58.6 | 15,643 | 18.0 | 16,684 | 19.2 | 3,636 | 4.2 | 50 | 0.1 |
| 1991 2 | 77,958 | 100.0 | 46,994 | 60.3 | 12,439 | 16.0 | 14,485 | 18.6 | 2,892 | 3.7 | 1,149 | 1.5 |
| 19923 | 218,594 | 100.0 | 129,486 | 59.2 | 43,051 | 19.7 | 36,005 | 16.5 | 8,309 | 3.8 | 1,743 | 9.0 |

¹ Details may not add to total due to rounding.

Source: Air Carrier Financial Statistics, Table 3 -- RSPA

Note: Wide fluctuations in total revenues and expenses are caused by fluctuations in the number of medium regional carriers. Some have been upgraded to large regional carriers and some have gone out of business. For list of medium regional carriers see Air Carrier Financial Statistics for year in question.

² Revised. 3 Preliminary.

³ Preliminary

TABLE 6.16 SMALL CERTIFICATED AND COMMUTER AIR CARRIERS 1991 and 1992

Action Airlines Advantage Airlines Aerial Transit Company

Aero Coach Air Alpha Air Cape Air L. A. Air Midwest, Inc. Air Molakai

Air Nevada Airlines, Inc.

Air Resorts
Air Sedona
Air Sunshine
Air Vegas
Air West Airlines
Airvantage
Airways Int'l
Alaska Island Air
Aleutian Air
Alliance Air
Aloha Island Air

Alpine Air Arctic Circle Air Service

Alpha Air

Arizona Pacific
Atlantic Coast Airlines
Atlantic Southeast Airlines
Aviation Associates
Aviation Services West
Baker Aviation

Bar Harbor Airways Barrow Air Bellair

Bemidji Airlines Bering Air Big Sky Airlines

Business Express Airlines

Cape Air

Cape Smythe Air Service

Casino CCair

Chalks Int'l Airlines

Chartair Charter One Chautaugua Airlines

Christman Air System
Coastal Air Transport

Colgan Air Columbia Pacific Comair

Command Airways Commutair Conner Air lines Conquest Airlines Continental Express Crown Airways
Dawn Air
Direct Air
Ellis Air Taxi
Empire Airways
ERA Aviation
Exec Express II
Executive Transport
Express Airlines I
Fine Airlines, Inc.
Flagship

Flamenco Airways
Florida Air
Flying Boat

Freedom Air Frontier Flying Service

GP Express Grand Airways

Grand Canyon Helicopters Great Lakes Aviation Gulf Air Taxi

Gulf Flite Center
Gulfstream Int'l
Hageland Aviation Service

Haines Airways
Harbor Air Service
Harbor Airlines
Helitrans
Henson Aviation
Ilian:na Air Taxi

Island Express

Jet Express

Jetstream Int'l Airlines Kenmore Air Harbor Ketchikan Air Service L.A.B. Flying Service

L'Express

Lake Union Air Services

Lapsa

Larry's Flying Service Las Vegas Air Lines

Loken

Long Island Airlines
Mall Airways
Markair Express
Mesa Airlines
Mesaba Airlines
Metro Express
Metroflight
Midway Commuter
Midwest Aviation
Mohawk Airlines

Midwest Aviation
Mohawk Airlines
Nashville Eagle
New England Airlines
New York Helicopter

Northeast Express Regional

Olson Air Service
Pacific Coast
Pacific Island
Pan Am Express
Panorama Air Tours
Paradise Island
Peninsula Airways
Pennsylvania Airlines
Precision Valley Aviation

Redwing

Rocky Mountain Airways

Ross Aviation
Ryan Air Service
Ryan Int'l
Samoa
Scenic Airlines
Sea Air Shuttle
Simmons Airlines*
Skagway Air Service
Sky One Express
Sky West Airlines
Skybus Express

Skybus Express
Skymaster
Southeast Airlines
Spirit Air Lines
Springdale Air
Stateswest Airlines
Suburban Airlines
Tanana Air Service
Taquan Air Service
Tatonduk Flying Service

Trans Air (Hawaii)
Trans World Express
Trump Air
Valley Airlines
Vieques Air Link
Village Aviation
Virgin Air

Temsco Airlines

Walker's International Warbelow's Air Ventures

West Isle Air Westates Wilburs Wings Airways Wings of Alaska Wings West WRA

Wright Air Service Yutana Airlines Yute Air Alaska 40-Mile Air

^{*}Large certificated medium regional air carrier.

TABLE 6.17 SMALL CERTIFICATED, COMMUTER AND LARGE CERTIFICATED MEDIUM REGIONAL AIR CARRIERS TRAFFIC DATA SCHEDULED SERVICES ONLY 1983-1992

| Category | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 י | 19922 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Revenue Passenger Miles | | | | | | | | _ | | |
| (000) | 2,228,453 | 4,601,837 | 3,031,817 | 3,352,187 | 3,986,637 | 4,582,522 | 5,052,222 | 5,875,960 | 6,022,536 | 7,188,917 |
| Revenue Enplanements | | | | | | | | | | |
| (000) | 15,941 | 20,230 | 18,853 | 20,849 | 24,839 | 27,801 | 29,612 | 33,491 | 32,713 | 36,476 |
| Passenger Ton Miles | | | | | | | | | | |
| (000) | 222,189 | 460,135 | 302,783 | 335,264 | 396,887 | 456,894 | 456,794 | 586,266 | 599,521 | 716,676 |
| Cargo Ton Miles (000) | 7,752 | 18,291 | 67,400 | 49,927 | 54,659 | 6,333 | 43,031 | 67,693 | 26,533 | 15,640 |
| Aircraft Revenue Miles | | | 1 | | | | | | | |
| (000) | 242,120 | 304,217 | 323,945 | 347,181 | 395,998 | 437,818 | 546,652 | 612,018 | 522,536 | 581,300 |
| Aircraft Revenue Hours | 1,464,879 | 1,759,848 | 1,832.623 | 1,940,095 | 2,193,230 | 2,389,988 | 2,589,223 | 3,016,836 | 2,704,553 | 2,904,440 |
| Aircraft Departures | 2,287,504 | 2,706,142 | 2,755,616 | 2,866,653 | 3,132,899 | 3,323,772 | 3,284,610 | 3,624,162 | 3,495,284 | 3,664,121 |

¹ Preliminary ² Revised

Source: Air Carrier Industry Scheduled Traffic Statistics, RSPA

TABLE 6.18 SMALL CERTIFICATED, COMMUTER AND LARGE CERTIFICATED **MEDIUM REGIONAL AIR CARRIERS** TRAFFIC AVERAGES SCHEDULED SERVICES ONLY 1983-1992

| Category | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 1 | 19922 |
|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Passengers Per Aircraft Mile | 9.2 | 15.1 | 9.4 | 9.7 | 10.1 | 10.5 | 9.2 | 9.9 | 11.5 | 12.4 |
| Available Seats Per Aircraft Mile | 20.7 | 30.0 | 21.3 | 21.5 | 21.8 | 22.6 | 19.5 | 20.9 | 24.6 | 25.3 |
| Revenue Tons Per Aircraft Mile | 1.0 | 1.6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.0 | 1.2 | 1.2 | 1.3 |
| Available Tons Per Aircraft Mile | 2.3 | 3.3 | 2.7 | 2.5 | 2.7 | 2.4 | 2.2 | 2.4 | 2.7 | 2.8 |
| Flight Stage Length (Miles) | 105.8 | 112.3 | 117.6 | 128.7 | 126.4 | 131.7 | 165.5 | 168.9 | 149.5 | 158.5 |

¹Preliminary ²Revised

Source: Air Carrier Industry Scheduled Traffic Statistics, RSPA

VII. U.S. CIVIL AIRMEN

Statistics pertaining to airmen, both pilot and nonpilot, were obtained from the official airmen certification records maintained by the Airmen Certification and Medical Certification Branches of the Mike Monroney Aeronautical Center at Oklahoma City, Oklahoma.

Active pilots are those pilots who hold a pilot certificate and a valid medical certificate—one that was issued within the last 25 months. Glider pilots may have, but are not required to have, a medical examination. The inventory data for this category includes only those with a valid medical certificate.

For those nonpilot certificates for which a medical certificate is not required (mechanics, parachute riggers, ground instructors, and dispatchers), the numbers shown include all who have been issued that airman certificate.

Table 7.1 ESTIMATED ACTIVE PILOT CERTIFICATES HELD **DECEMBER 31, 1983-1992**

| Category | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Pliot-Total | 718,004 | 722,376 | 709,540 | 709,118 | 699,653 | 694,016 | 700,010 | 702,659 | 692,095 | 682,959 |
| Student 1 | 147,197 | 150,081 | 146,652 | 150,273 | 146,016 | 136,913 | 142,544 | 128,663 | 120,203 | 114,597 |
| Recreational 1 | N/A | N/A | NA | NA | NA | NA | N/A | 87 | 161 | 187 |
| Airplane 2 | | | | | | | | | | |
| Private | 318,643 | 320,086 | 311,086 | 305,736 | 300,949 | 299,786 | 293,179 | 299,111 | 293,306 | 288,078 |
| Commercial | 159,495 | 155,929 | 151,632 | 147,798 | 143,645 | 143,030 | 144,540 | 149,666 | 148,365 | 146,385 |
| Airline Transport | 75,938 | 79,192 | 82,740 | 87,186 | 91,287 | 96,968 | 102,087 | 107,732 | 112,167 | 115,855 |
| Helicopter (only) 3 | 7,237 | 7,532 | 8,123 | 8,581 | 8,702 | 8,608 | 8,863 | 9,567 | 9,860 | 9,652 |
| Glider (only) 4.5 | 8,157 | 8,390 | 8,168 | 8,411 | 7,901 | 7,600 | 7,708 | 7,833 | 8,033 | 8,205 |
| Lighter-than-air 5, 6 | 1,337 | 1,166 | 1,139 | 1,133 | 1,153 | 1,111 | 1,089 | 6 | 6 | |
| Flight Instructor Certificates 7 | 62,201 | 61,173 | 58,940 | 57,355 | 60,316 | 61,798 | 61,472 | 63,775 | 69,209 | 72,148 |
| Instrument Ratings 7.8 | 254,271 | 256,584 | 258,559 | 262,388 | 266,122 | 273,804 | 282,804 | 297,073 | 303,193 | 306,166 |
| Nonpilot—Total | 413,199 | 426,802 | 395,139 | 410,079 | 427,962 | 448,710 | 468,405 | 492,237 | 517,462 | 540,548 |
| Mechanic 9 | 288,335 | 298,028 | 274,100 | 284,241 | 297,178 | 312,419 | 326,243 | 344,282 | 366,392 | 384,669 |
| Parachute Rigger® | 10,074 | 10,194 | 9,395 | 9,535 | 9,659 | 9,770 | 9,879 | 10,094 | 7,916 | 8,163 |
| Ground Instructor 9 | 66,385 | 67,463 | 58,214 | 59,443 | 60,861 | 62,582 | 64,503 | 66,882 | 70,086 | 73,276 |
| Dispatcher® | 8,223 | 8,980 | 8,511 | 9,025 | 9,491 | 10,020 | 10,455 | 11,002 | 11,607 | 12,264 |
| Flight Navigator | 1,636 | 1,603 | 1,542 | 1,512 | 1,445 | 1,400 | 1,357 | 1,290 | 1,225 | 1,154 |
| Flight Engineer | 38,546 | 40,534 | 43,377 | 46,323 | 49,328 | 52,519 | 55,968 | 58,687 | 60,236 | 61,022 |

¹ Category of certificate unknown.

N/A Not available. Recreational certificate first issued in 1990.

² Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

3 See table 7 for the total number of pilots with a helicopter certificate.

⁴ See table 8 for the total number of pilots with a glider certificate.

⁵ Gilder and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination within the last 25 months.

⁶ Lighter-than-air type ratings are no longer being issued.

⁷ Not included in total.

⁸ Special ratings shown on pilot certificates, do not indicate additional certificates.

⁹ Numbers represent all certificates on record. No medical examination required.

Table 7.2
ESTIMATED ACTIVE WOMEN PILOT CERTIFICATES HELD
DECEMBER 31, 1983–1992

| Category | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pliot—Total | 43,648 | 44,339 | 43,483 | 43,082 | 42,578 | 42,299 | 42,366 | 40,515 | 40,931 | 40,620 |
| Student 1 | 18,696 | 19,435 | 19,058 | 18,899 | 18,367 | 17,529 | 17,637 | 15,007 | 14,501 | 13,921 |
| Recreational 1 | NA | N/A | N/A | N/A | N/A | N/A | N/A | 6 | 15 | 10 |
| Airplane 2 | ļ | | | | | | | | | |
| Private | 18,801 | 18,616 | 17,974 | 17,532 | 17,349 | 17,544 | 16,988 | 17,301 | 17,514 | 17,276 |
| Commercial | 4,281 | 4,232 | 4,185 | 4,176 | 4,208 | 4,410 | 4,760 | 5,210 | 5,652 | 5,918 |
| Airline Transport | 884 | 1,032 | 1,184 | 1,334 | 1,538 | 1,745 | 1,898 | 2,082 | 2,308 | 2,530 |
| Helicopter (only) | 144 | 167 | 196 | 232 | 247 | 259 | 273 | 292 | 307 | 313 |
| Glider (only) 3 | 599 | 631 | 653 | 667 | 627 | 590 | 586 | 617 | 634 | 652 |
| Lighter-than-air 3.4 | 243 | 226 | 233 | 242 | 242 | 222 | 224 | 4 | 4 | 4 |
| Flight Instructor Certificates 4 | 2,685 | 2,736 | 2,731 | 2,687 | 2,909 | 3,018 | 3,074 | 3,239 | 3,629 | 3,964 |
| Nonpilot—Total | 6,151 | 6,591 | 6,017 | 6,502 | 7,101 | 7,842 | 10,683 | 9,557 | 10,324 | 11,514 |
| Mechanic 6 | 1,493 | 1,649 | 1,775 | 1,964 | 2,237 | 2,565 | 2,892 | 3,333 | 3,901 | 4,398 |
| Parachute Riggers | 605 | 614 | 412 | 414 | 428 | 441 | 451 | 474 | 363 | 390 |
| Ground Instructor 6 | 3,554 | 3,680 | 2,980 | 3,087 | 3,232 | 3,391 | 3,554 | 3,760 | 3,952 | 4,338 |
| Dispatcher 6 | 249 | 310 | 394 | 460 | 524 | 622 | 711 | 802 | 852 | 1,004 |
| Flight Navigator | 2 | 2 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 |
| Flight Engineer | 248 | 336 | 455 | 577 | 680 | 822 | 3,074 | 1,188 | 1,256 | 1,384 |

¹ Category of certificate unknown.

² Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

³ Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination within the last 25 months.

⁴ Lighter-than-air type ratings are no longer being issued.

⁵ Not included in total.

⁶ Numbers represent all certificates on record. No medical examination required.

N/A Not available. Recreational certificate first issued in 1990.

Table 7.3
ESTIMATED ACTIVE PILOT CERTIFICATES HELD,
BY CLASS OF CERTIFICATE AND BY FAA REGION
DECEMBER 31, 1992

| | | • | | idek j | -, -//- | | | | | | |
|---|---------|---------|---------|----------|----------------|----------------|-----------------------|------------|----------------|--------------------|------------------------------|
| Class of Certificate | Total 1 | Alaskan | Central | Eastern | Great Lakes | New England | Northwest Mountain | Southern | South- west | Western Pacific | Outside U.S. ² |
| Total—All Pliota | 682,950 | 9.566 | 33,461 | 87,768 | 111,713 | 30,925 | 66,462 | 119,428 | 78.367 | 115,545 | 29,724 |
| Student 3 | 114,597 | 1,240 | 5,356 | 16,819 | 19,521 | 5,384 | 10,596 | 19,460 | 12,243 | 18,622 | 5,356 |
| Recreational 3 | 187 | 1 | 14 | 36 | 50 | 15 | 7 | 40 | 9 | 7 | 8 |
| Airpiene 4 | | | | - ~ i | • | | l ' | ~ | | ' | |
| Private —Total | 268,078 | 4,357 | 16,756 | 36,963 | 53,571 | 13,916 | 28,495 | 45,916 | 31,262 | 50,526 | 6,324 |
| Private Airplane (only) | 276,713 | 4,229 | 16,257 | 35,327 | 52,193 | 13,407 | 27,371 | 43,978 | 30,117 | 48,153 | 5,681 |
| Private Airplane, Private Glider | 4,030 | 35 | 173 | 645 | 606 | 190 | 391 | | 30,117 | 899 | 74 |
| Private Airplane, Commercial Glider | 893 | | | 173 | | | _ | 641 | | | 8 |
| | | 3 | 19 | . 1 | 142 | 66 | 122 | 97 | 74 | 189 | _ |
| Private Airplane, Private Gyropiane | 28 | | | 0 | 170 | 2 | 3 | 6 | 5 | 3 | 0 |
| Private Airplane, Private Helicopter | 1,731 | 20 | 71 | 217 | 172 | 93 | 172 | 243 | 166 | 377 | 200 |
| Private Airplane, Private Glider, | | _] | | | _ 1 | | 1 | | | 1 | _ |
| Private Helicopter | 68 | 0 | 1 | 14 | 9 | 7 | 4 | 10 | 3 |] 11 | 9 |
| Private Airplane, | | | | | | | l ' | 1 | | | |
| Commercial Helicopter | 4,561 | 69 | 234 | 568 | 440 | 149 | 428 | 926 | 516 | 882 | 349 |
| Private Airplane, Private Glider, | | | | | | | l ' | 1 | | ! 1 | |
| Commercial Helicopter | 37 | 1 | 1 | 6 | 1 | 1 |] 4 | 10 | 3 | j 8 | 2 |
| Private Airplane, Commercial Glider, | | | | . 1 | | | l ' | 1 | | 1 1 | |
| Commercial Helicopter | 15 | 0 | 0 | 3 | 0 | 1 | l o |] 4 | 2 | 4 | 1 |
| Private Airplane, Commercial | | | | 1 | | | | i l | | ĺ | |
| Gyropiane, Commercial Helicopter | 2 | 0 | 0 | ام | 1 | ٥ | ه (| 1 | 0 | اه ا | n |
| CommercialTotal | 146,385 | 2,466 | 7,028 | 17,621 | 22,165 | 5,697 | 13,750 | 26,298 | 17.964 | 23,458 | 9,936 |
| Commercial Airplane (only) | 126,797 | 2,155 | 6,157 | 14,917 | 19,953 | 4,971 | 11,689 | 22,204 | 15,534 | 19,688 | 9,529 |
| Commercial Airplane, Private Glider . | 2,055 | 29 | 91 | 312 | 311 | 7,37 | 210 | 365 | 226 | 409 | 25 |
| Commercial Airplane, Commercial | 2,000 | | ٠. | J J | 311 | " | | | 220 | 1 703 | 25 |
| Gilder | 3,630 | 31 | 138 | 561 | 400 | 200 | 460 | اموء أ | 202 | 745 | 20 |
| Commercial Airplane, Commercial | 3,630 | 31 | 136 | 361 | 480 | 200 | 462 | 584 | 393 | 745 | 36 |
| | | اء | _ | i _1 | _ | _ | | [_ [| _ | Í .i | _ |
| Gyroplane, Commercial Glider | 1 | 0 | 0 | 이 | 0 | 0 | 0 | 0 | 0 | 1 | 0 |
| Commercial Airplane, | | | | | | | • | i 1 | | i 1 | |
| Private Helicopter | 401 | 4 | 23 | 58 | 53 | 17 | 36 | 70 | 36 | 83 | 21 |
| Commercial Airplane, Commercial | | | | i i | | | 1 | i | | [[| |
| Glider, Private Helicopter | 27 | 0 | 0 | 5 | 6 | 1 | 1 | 3 | 4 | 6 | 1 |
| Commercial Airplane, | | | | l i | | | | | | (: | |
| Commercial Helicopter | 12,767 | 237 | 587 | 1,670 | 1,285 | 397 | 1,272 | 2,943 | 1,698 | 2,363 | 315 |
| Commercial Airplane, Private Glider, | | | | 1 | | | | 1 | | [| |
| Commercial Helicopter | 149 | 2 | 5 | 22 | 21 | 7 | 19 | 30 | 12 | 27 | 4 |
| Commercial Airplane, Commercial | | | | i | | | , | 1 | | () | |
| Glider, Commercial Helicopter | 509 | 7 | 22 | 74 | 48 | 26 | 56 | 89 | 57 | 125 | 5 |
| Commercial Airplane, Commercial | | | | | | | | i 1 | | [| |
| Helitcopter, Commercial Gyropiane | 18 | ol | 1 | 2 | 1. | 0 | 2 | J 3 | 1 | 6 | 2 |
| Commercial Airplane, | 1. | | | _ | | - | | · - 1 | | [] | _ |
| Commercial Gyroplane | 20 | 1 | 3 | 0 | 5 | 1 | 2 | 5 | 1 | 2 | 0 |
| Commercial Airplane, Commercial | | T T | | , j | Ĭ | • | - | ا ا | • | - | • |
| Gyroplane, Commercial Helicopter | | | | , , | | | 1 |] | | ŀ | |
| Commercial Glider | 11 | o | | ام | 2 | | 1 | ا ا | 9 | 4 | |
| Airline Transport —Total | 115,855 | 1,393 | 3,832 | 13,364 | 14,636 | 4,972 | 11,989 | 25,067 | 15,155 | 18,720 | 6,707 |
| Airline Transport Airplane (only) | 113,692 | 1,328 | 3,786 | 12,991 | 14,452 | 4,846 | 11,802 | 24,629 | 14,815 | 18,409 | |
| Airline Transport Airplane. | 113,032 | 1,320 | 3,780 | 12,351 | 17,732 | 4,040 | 11,002 | 24,029 | 14,015 | 10,405 | 6,634 |
| • | 2 462 | 65 | 40 | 272 | 404 | 100 | 407 | 450 | 240 | | 70 |
| Airline Transport Helicopter | 2,163 | | 46 | 373 | 184 | 126 | 187 | 458 | 340 | 311 | 73 |
| Rotorcraft (only) 5 — Total | 9,652 | 94 | 330 | 1,295 | 775 | 434 | 753 | 1,906 | 1,092 | 1,777 | 1,196 |
| Private Gyroplane | 16 | 0 | . 1 | 0 | 7 | 2 | 2 | 1 | 1 | 1 | 1 |
| Private Helicopter | 1,917 | 4 | 25 | 214 | 126 | 150 | 117 | 167 | 79 | 545 | 490 |
| Commercial Helicopter | 7,199 | 76 | 297 | 1,000 | 613 | 269 | 592 | 1,651 | 902 | 1,179 | 620 |
| Commercial Helicopter, | | 1 | | l | | | | | ı | | |
| Private Glider | 5 | 0 | 0 | 2 | 1 | 0 | 0 | 1 | 0 | 1 | 0 |
| Commercial Helicopter, | | | | | | | | | | ĺ | |
| Commercial Glider | 4 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 2 | . 0 |
| Commercial Gyropiane | 1 | 0 | 0 | 0 | 1 | Ð | 0 | 0 | 0 | o | 0 |
| Commercial Helicopter, | | j | | | | | | j i | | | |
| Commercial Gyropiane | 2 | o | 1 | ol | ٥ | 0 | o | اه ا | 1 | اه | 0 |
| Airline Transport Helicopter | 508 | 14 | 6 | 78 | 27 | 13 | 42 | 86 | 108 | 49 | 85 |
| Gilder only 4.7—Total | 8,205 | 15 | 143 | 1,680 | 995 | 507 | 872 | 721 | 642 | 2,435 | 195 |
| Private Glider | 7,090 | 10 | 123 | 1,424 | 852 | 421 | 734 | 628 | 553 | 2,176 | 169 |
| Commercial Gilder | 1,115 | 5 | 20 | | | | | | | | |
| Flight Instructor Certificates | 72,148 | - | | 256 | 143 | 3 190 | 138 | 93 | 89 | 259 | 26 2 067 |
| F19401 # 1941 W. COT COT COTON CONTROL | /4,148 | 915 | 3,519 | 9,968 | 12,182 | 3,188 | 7,121 | 12,711 | 8,693 | 11.784 | 2,067 |
| Instrument Ratings *.* | 306,169 | 3,914 | 13,239 | 38,196 | 46,027 | 13,109 | 28,981 | 59,879 | 37,461 | 49,723 | 15,640 |

¹ Includes Outside U.S. total.

² Outside U.S. includes airmen certificated by the FAA who live outside the 50 states or foreign countries.

³Category of cartificate unknown.

⁴ Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate.

^{*}See table 7 for the total number of pilots with a helicopter certificate.

^{*}See table 8 for the total number of pilots with a glider certificate.

⁷ Gilder pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination within the last 25 months.

^{*}Not included in total.

^{*}Special ratings shown on pilot certificates, do not indicate additional certificates.

Table 7.4 ESTIMATED ACTIVE PILOT CERTIFICATES HELD BY CLASS OF CERTIFICATE **DECEMBER 31, 1983-1992**

| Class of Certificate | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1966 | 1985 | 1964 | 1983 |
|---|-------------|-------------|-------------|-----------------------|--------------|----------------|------------|------------|---------|----------------|
| Total—All Pilots | 682,959 | 692,095 | 702,659 | 700,010 | 894,016 | 899,653 | 709,118 | 709,540 | 722,376 | 718.004 |
| Student 1Total | 114,597 | 120,203 | 128,663 | 142,544 | 136,913 | 146,016 | 150,273 | 146,652 | 150,081 | 147,197 |
| Recreational 1 | 187 | 161 | 87 | N/A | N/A | N/A | NA | N/A | NA | N/A |
| Airpiane ² | | | | | | | | | | |
| Private—Total | 288,078 | 293,306 | 299,111 | 293,179 | 299,786 | 300,949 | 305,736 | 311,066 | 320,086 | 318,643 |
| Private Airplane (only) | 276,713 | 282,047 | 288,035 | 282,540 | 289,318 | 290,694 | 295,607 | 301,021 | 310,207 | 309,216 |
| Private Airplane, Private Glider | 4,030 | 4,113 | 4,144 | 4,049 | 4,059 | 4,105 | 4,144 | 4,234 | 4,347 | 4,269 |
| Private Airplane, Commercial Glider | 893 | 878 | 841 | 807 | 799 | 795 | 772 | 767 | 754 | 716 |
| Private Airplane, Private Gyroplane | 28 | 20 | 22 | 31 | 26 | 29 | 25 | 29 | 30 | 31 |
| Private Airplane, Private Helicopter | 1,731 | 1,722 | 1,592 | 1,459 | 1,392 | 1,316 | 1,288 | 1,236 | 1,206 | 1,112 |
| Private Airplane, Private Glider, | 1 1 | ł | | | | 1 | | | | |
| Private Helicopter | 68 | 71 | 67 | 58 | 60 | 55 | 47 | 48 | 48 | 47 |
| Private Airplane, Commercial Helicopter | 4,561 | 4,405 | 4,357 | 4,186 | 4,081 | 3,904 | 3,805 | 3,713 | 3,457 | 3,218 |
| Private Airplane, Private Glider, | | ļ | | | | | | | | |
| Commercial Helicopter | 37 | 35 | 36 | 30 | 32 | 37 | 33 | 21 | 21 | 19 |
| Private Airplane, Commercial Glider, | 1 1 | | | | | | | | | |
| Commercial Helicopter | 15 | 14 | 15 | 17 | 17 | 12 | 14 | 16 | 15 | 14 |
| Private Airplane, Commercial Gyropiane, | l 1 | | | | | | | | | |
| Commercial Helicopter | 2 | 1 | 2 | 2 | 2 | 2 | 1] | 1 | 1 | 1 |
| Commercial—Total | 146,385 | 148,365 | 149,666 | 144,540 | 143,030 | 143,645 | 147,798 | 151,632 | 155,929 | 159,495 |
| Commercial Airplane (only) | 126,797 | 128,207 | 128,628 | 123,612 | 121,819 | 121,934 | 125,235 | 128,749 | 132,668 | 135,906 |
| Commercial Airplane, Private Glider | 2,055 | 2,072 | 2,081 | 2,057 | 2,063 | 2,070 | 2,148 | 2,164 | 2,186 | 2,158 |
| Commercial Airplane, Commercial Glider | 3,630 | 3,645 | 3,776 | 3,685 | 3,703 | 3,777 | 3,983 | 4,073 | 4,149 | 4,206 |
| Commercial Airplane, Commercial Gyroplane, | | J | | | | | | | | |
| Commercial Glider | 1 1 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 3 |
| Commercial Airplane, Private Helicopter | 401 | 379 | 348 | 325 | 302 | 274 | 262 | 245 | 248 | 241 |
| Commercial Airplane, Commercial Glider, | | | | | | | | | | |
| Private Helicopter | 27 | 26 | 28 | 27 | 24 | 18 | 16 | 19 | 16 | 13 |
| Commercial Airplane, Commercial Helicopter | 12,767 | 13,316 | 14,036 | 14,085 | 14,346 | 14,778 | 15,335 | 15,550 | 15,817 | 16,142 |
| Commercial Airplane, Private Glider, | | | | | | | | | | |
| Commercial Helicopter | 149 | 146 | 163 | 154 | 150 | 152 | 156 | 162 | 154 | 150 |
| Commercial Airplane, Commercial Gilder, | ļ l | | | | | | | | | |
| Commercial Helicopter | 509 | 518 | 543 | 535 | 562 | 587 | 609 | 614 | 632 | 625 |
| Commercial Airplane, Commercial Helicopter, | 1 | | | | | | | | | |
| Commercial Gyroplane | 18 | 19 | 20 | 19 | 22 | 20 | 23 | 25 | 25 | 20 |
| Commercial Airplane, Commercial Gyroplane | 20 | 25 | 31 | 27 | 24 | 24 | 21 | 23 | 24 | 23 |
| Commercial Airplane, Commercial Gyroplane, | ii | | | | | | | _ | _ | |
| Commercial Helicopter, Commercial Glider | 11 | 10 | 10 | 11 | 13 | 10 | 9 | 7 | 7 | 8 |
| Airline Transport —Total | 115,855 | 112,167 | 107,732 | 102,087 | 96,968 | 91,287 | 87,186 | 82,740 | 79,192 | 75,938 |
| Airline Transport Airplane (only) | 113,692 | 110,131 | 105,830 | 100,317 | 95,282 | 89,694 | 85,714 | 81,367 | 77,921 | 74,752 |
| Airline Transport Airplane, Airline Transport | | | 4.000 | | 4 000 | 4.500 | | | | |
| Helicopter | | 2,036 | 1,902 | 1,770 8,863 | 1,686 | 1,593 | 1,472 | 1,373 | 1,271 | 1,186 |
| Rotorcraft (only) 2—Total | 9,652 | 9,860 | 9,567 | 12 | 8,608 | 8,702 | 8,581 | 8,123 | 7,532 | 7,237 |
| Private Gyroptane Private Helicopter | 16 1,917 | 15 1.864 | 11 1,572 | 1,264 | 1,143 | 10 | 9 892 | 5 808 | 6 | 8 |
| Commercial Helicopter | | 7,469 | 7,524 | 7,116 | 6,997 | 1,019 7,228 | 7,230 | 6,862 | 712 | 615 |
| Commercial Helicopter Private Glider | 7,199 | 7,409 | 7,524 | 7,116 | 0,997 | 7,228 | | 6,86∠ 5 | 6,415 | 6,286 |
| Commercial Helicopter, Commercial Glider |] | (ر | . 3 | 2 | (۱ | 5 | 6 | 9 | 2 | 3 |
| |] [| - | 2 | - [| ő | 3 | ^ [| 0 | ر م | , |
| Commercial Gyroplane Commercial Helicopter, Commercial Gyroplane | 1 2 | 2 | 2 | | 2 | | 1 2 | 2 | | 0 |
| Airline Transport Helicopter | 508 | 500 | 449 | 461 | 440 | 433 | 435 | 432 | 387 | 316 |
| Glider (only) 4.5—Total | 8,206 | 8.033 | 7,833 | 7,708 | 7,600 | 7,901 | 8,411 | 8,168 | 8,390 | |
| Private Glider | 7,090 | 6,929 | 6,773 | 6,652 | 6,528 | 6,734 | 7,168 | 7,000 | 6,971 | 8,157 6,794 |
| Commercial Glider | 1,115 | 1,104 | 1,060 | 1,056 | 1,072 | 1,167 | 1,243 | 1,168 | 1,419 | 1,363 |
| Lighter-Than-Air 5.6 | , , | 1,104 | 1,000 | 1,089 | 1,111 | 1,153 | 1,133 | 1,139 | 1,166 | 1,337 |
| Flight Instructor Certificates? | 72,148 | 69,209 | 63,775 | 61,472 | 61,798 | 60,316 | 57,355 | 58,940 | 61,173 | 62,201 |
| Instrument Ratings 7.6 | 306,169 | 303,193 | 297,073 | 282,804 | 273,804 | 266,122 | 262,388 | 258,559 | 256,584 | 254,271 |

¹ Category of certificate unknown.
2 Includes pilots with an airptane only certificate. Also includes those with an airptane and a helicopter and/or glider certificate.
3 See table 7 for the total number of pilots with a helicopter certificate.
4 See table 8 for the total number of pilots with a glider certificate.
5 Glider and lighter-than-air pilots are not required to have a medical examination; however, the totals above represent pilots who received a medical examination within the last 25 months.
4 Lighter-than-air type ratings are no longer being issued.
7 Not included in total.
4 Special ratings shown on pilot certificates, do not indicate additional certificates.
N/A Not available. Recreational certificate first issued in 1990.

Table 7.5 ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE DECEMBER 31, 1992

| SAA Basian and State | Total | 04.44 | | Airplane 2 | | | Flight | |
|---------------------------------|---------|----------------|------------|------------|----------------------|------------|-------------------|--|
| FAA Region and State | Pilots | Students 1 | Private | Commercial | Airline Transport | Misc. 3 | Instructor 4 | |
| Total 5 | 682,959 | 114,597 | 288,078 | 146,385 | 115,855 | 18,044 | 72,14 | |
| United States—Total | 653,235 | 109,241 | 281,754 | 136,447 | 109,148 | 16,645 | 70,08 | |
| Alaskan Region—Total | 9,566 | 1,240 | 4,357 | 2,466 | 1,393 | 110 | 91 | |
| Central Region—Total | 33,461 | 5,356 | 16,758 | 7.028 | 3,832 | 487 | 3.519 | |
| lowa | 6,847 | 1,092 | 3,786 | 1,374 | 509 | 86 | 70 | |
| Kansas | 9,126 | 1,364 | 4,636 | 1,993 | 1.011 | 122 | 95 | |
| Missouri | 12.565 | 2,119 | 5.805 | 2,518 | 1.882 | 241 | 1,41 | |
| Nebraska | 4,923 | 781 | 2.531 | 1,143 | 430 | 38 | 44 | |
| Eastern Region—Total | 87,768 | 16,819 | 36,953 | 17,621 | 13,364 | 3,011 | 9,96 | |
| Delaware | 1,671 | 291 | 675 | 348 | 315 | 42 | 22 | |
| District of Columbia | 515 | 101 | 230 | 107 | 44 | 33 | 4 | |
| Marviand | 9,768 | 1.830 | 4,291 | 1,921 | 1,422 | 304 | 1.06 | |
| New Jersey | 13,660 | 2,609 | 5.828 | 2.495 | 2,266 | 462 | 1,59 | |
| New York | 21,917 | 4,573 | 9,637 | 4.277 | 2,427 | 1.003 | 2.42 | |
| Pennsylvania | 21,147 | 4,029 | 9,259 | 3.913 | 3,383 | 563 | 2.55 | |
| Virginia | 15,553 | 2,636 | 5,500 | 3,762 | 3,188 | 467 | 1,75 | |
| West Virginia | 2,510 | 510 | 1,230 | 475 | 227 | 68 | 23 | |
| Armed Forces Europe 6 | 1,027 | 240 | 303 | 323 | 92 | 69 | 8 | |
| Great Lakes Region—Total | 111,713 | 19.521 | 53.571 | 22.165 | 14.636 | 1.820 | 12.18 | |
| Illinois | 25.056 | 4,323 | 11,107 | 4,934 | 4,246 | 446 | 3,02 | |
| Indiana | 12,324 | 2,280 | 6.084 | 2,415 | 1,383 | 162 | 1,30 | |
| Michigan | 19.081 | 3,445 | 9.558 | 3,608 | 2,068 | 402 | 2,06 | |
| Minnesota | 16,739 | 2,790 | 7,697 | 3,433 | 2,609 | 210 | 1,77 | |
| North Dakota | 3,267 | 512 | 1,540 | 1,031 | 162 | 210 | 33 | |
| Ohio | 20.867 | 3,619 | 10.186 | 4,078 | 2,561 | 423 | 2.30 | |
| South Dakota | 2,441 | 420 | 1,148 | 610 | 2,301 | 21 | 2,30 | |
| Wisconsin | 11,938 | 2.132 | 6,251 | 2.056 | 1,365 | 134 | 1,16 | |
| New England Region—Total | 30.925 | 5,132 5,384 | 13,916 | 5,697 | 4.972 | 956 | | |
| Connecticut | 8.001 | 1,276 | 3,298 | 1,426 | 1,750 | 251 | 3,18 83 | |
| Maine | 3,689 | 697 | 1.753 | 793 | 390 | 251 56: | 32 | |
| Massachusetts | 11.453 | 2,145 | 5,577 | 2,019 | 1,284 | 428 | | |
| New Hampshire | 4.535 | | • | ,, | , | , | 1,16 | |
| · • | 1,488 | 678 | 1,793 | 826 | 1,131 | 107 | 533 | |
| Rhode Island | 1,759 | 275 313 | 704 791 | 294 339 | 175 242 | 40 74 | 14: | |
| | 66.462 | | | | | | 189 | |
| Northwest Mountain Region—Total | , | 10,596 | 28,495 | 13,750 | 11,989 | 1,632 | 7,12 | |
| Colorado | 16,994 | 2,426 | 6,369 | 3,650 | 4,037 | 512 | 2,25 | |
| idaho | 4,579 | 773 | 2,250 | 950 | 515 | 91 | 41 | |
| Montana | 3,833 | 592 | 1,893 | 929 | 365 | 54 | 38 | |
| Oregon | 10,456 | 1,769 | 5,339 | 2,139 | 922 | 287 | 1,03 | |
| Utah | 6,160 | 1,135 | 2,529 | 1,124 | 1,242 | 130 | 574 | |
| Washington | 22,499 | 3,618 | 9,081 | 4,582 | 4,697 | 521 | 2,28 | |
| Wyoming | 1,941 | 283 | 1,034 | 376 | 211 | 37 | 179 | |
| Southern Region—Total | 119,428 | 19,460 | 45,916 | 26,298 | 25,087 | 2,667 | 12,71 | |
| Alabama | 8,356 | 1,499 | 3,528 | 2,011 | 873 | 445 | 998 | |
| Florida | 47,512 | 7,057 | 17,985 | 11,281 | 10,398 | 791 | 5,34 | |
| Georgia | 18,198 | 2,799 | 6,273 | 3,504 | 5,281 | 341 | 1,71 | |
| Kentucky | 6,364 | 1,207 | 2,554 | 1,093 | 1,343 | 167 | 629 | |
| Mississippi | 4,471 | 838 | 1,752 | 1,322 | 467 | 92 | 41 | |
| North Carolina | 14,998 | 2,534 | 6,150 | 3,004 | 2,936 | 374 | 1,44 | |
| South Carolina | 6,666 | 1,262 | 2,752 | 1,590 | 927 | 135 | 64 | |
| Tennessee | 12,738 | 2,244 | 4,890 | 2,450 | 2,850 | 304 | 1,51 | |
| Armed Forces Europe 6 | 125 | 20 | 32 | 43 | 12 | 18 | 1 | |

Table 7.5—Continued ESTIMATED ACTIVE PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE DECEMBER 31, 1992

| | Tatal | 1 | | Airplane ² | } | | ere |
|------------------------------|-----------------|------------|--------------------|-----------------------|----------------------|---------|------------------------|
| FAA Region and State | Total Pilots | Students 1 | Private Commercial | | Airline Transport | Misc. 3 | Flight Instructor 4 |
| Southwest Region—Total | 78,367 | 12,243 | 31,262 | 17,964 | 15,155 | 1,743 | 8,693 |
| Arkansas | 5,758 | 1,047 | 2,529 | 1,488 | 606 | 88 | 559 |
| Louisiana | 7,341 | 1,204 | 2,753 | 2,106 | 982 | 296 | 800 |
| New Mexico | 4,746 | 714 | 2,084 | 1,163 | 652 | 133 | 544 |
| Okiahoma | 10,328 | 1,864 | 4,897 | 2,299 | 1,137 | 131 | 1,124 |
| Texas | 50,194 | 7,414 | 18,999 | 10,908 | 11,778 | 1,095 | 5,666 |
| Nestern-Pacific Region—Total | 115,545 | 18,622 | 50,526 | 23,458 | 18,720 | 4,219 | 11,784 |
| Arizona | 15,883 | 2,647 | 6,234 | 3,421 | 3,056 | 525 | 1,994 |
| California | 90,035 | 14,507 | 41,010 | 18,052 | 13,229 | 3,237 | 8,742 |
| Hawaii | 3,293 | 532 | 872 | 708 | 924 | 257 | 388 |
| Nevada | 5,626 | 707 | 2,217 | 1,084 | 1,452 | 166 | 611 |
| Armed Forces Pacific 6 | 708 | 229 | 193 | 193 | 59 | 34 | 49 |
| Outside U. S.—Total 7 | 29,724 | 5,356 | 5,324 | 9,938 | 5,707 | 1,399 | 2,067 |
| Other U. S. Areas: | 2,161 | 590 | 662 | 390 | 447 | 72 | 294 |
| American Samoa | 12 | 2 | 1 | 3 | 4 | 2 | 18 |
| Guam | 218 | 35 | 37 | 36 | 106 | 4 | 276 |
| Puerto Rico | 1,614 | 469 | 515 | 293 | 277 | 60 | Ċ |
| Virgin Islands | 313 | 84 | 107 | 57 | 59 | 6 | C |
| Wake Island | 4 | 0 | 2 | 1 | 11 | o | ć |

¹ Category of certificate unknown.

² Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate

³ Includes helicopter, glider, and recreational.

⁴ Not included in total.

⁵ Includes Outside U.S.

⁶ Military personnel holding civilian certificate stationed in foreign country.

⁷ Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

Table 7.6 ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE DECEMBER 31, 1992

| } | | | | Airplane 2 |] | | Flinks |
|---------------------------------|-----------------|------------|---------|------------|----------------------|----------|------------------------|
| FAA Region and State | Total Pilots | Students 1 | Private | Commercial | Airline Transport | Misc. 3 | Flight Instructor 4 |
| Total ^s | 40,620 | 13,921 | 17,276 | 5,918 | 2,530 | 975 | 3,96 |
| United States—Total | 39,406 | 13,552 | 16,852 | 5,619 | 2,463 | 920 | 3,87 |
| Alaskan Region-Total | 693 | 204 | 356 | 101 | 27 | 5 | 6 |
| Central Region—Total | 1,823 | 673 | 856 | 204 | 67 | 23 | 13 |
| lowa . | 327 | 133 | 156 | 31 | 7 . | 0 | 1 |
| Kansas | 504 | 155 | 257 | 59 | 24 | 9 | 4 |
| Missouri | 753 | 296 | 335 | 78 | 32 | 12 | 5 |
| Nebraska | 239 | 89 | 108 | 36 | 4 | 2 | 2 |
| Eastern Region—Total | 5.403 | 1,950 | 2,208 | 753 | 313 | 179 | 52 |
| Delaware | 91 | 22 | 38 | 19 | 7 | 5 | 1 |
| District of Columbia | 52 | 20 | 21 | 4 | 6 { | 1 | ĺ |
| Maryland | 710 | 250 | 322 | 79 | 37 | 22 | 5 |
| New Jersey | 830 | 296 | 341 | 126 | 44 | 23 | 8 |
| New York | 1,348 | 497 | 523 | 181 | 73 | 74 | 12 |
| Pennsylvania | 1,324 | 486 | 553 | 192 | 69 | 24 | 14 |
| Virginia | 860 | 303 | 334 | 127 | 72 | 24 | 9 |
| West Virginia | 134 | 56 | 54 | 17 | 3 | 4 | Ĭ |
| Armed Forces Europe 6 | 54 | 20 | 22 | l ä | 2 | 2 | |
| Great Lakes Region—Total | 6,799 | 2,405 | 2,903 | 1,043 | 345 | 103 | 66 |
| Illinois | 1,618 | 536 | 650 | 298 | 110 | 24 | 19 |
| Indiana | 658 | 231 | 280 | 106 | 34 | 7 | ''è |
| • | | 415 | 501 | 160 | 53 | 35 | 11 |
| Michigan | 1,164 | 370 | 458 | 162 | 61 | 35 15 | 11 |
| Minnesota | 1,066 | | | , | 1 | 0 | , |
| North Dakota | 169 | 55 | 70 | 43 | 1 | - |] |
| Ohio | 1,305 | 476 | 567 | 186 | 59 | 17 | 12 |
| South Dakota | 110 | 49 | 47 | 10 | 4 | 0 | 1 |
| Wisconsin | 709 | 273 | 330 | 78 | 23 | 5 | |
| New England Region—Total | 1,992 | 669 | 881 | 272 | 116 | 54 | 19 |
| Connecticut | 491 | 160 | 201 | 72 | 41 | 17 | |
| Maine | 199 | 76 | 93 | 21 | 6 | 3 | |
| Massachusetts | 766 | 263 | 353 | 96 | 39 | 15 | |
| New Hampshire | 291 | 81 | 123 | 58 | 18 | 11 | ٠ ١ |
| Rhode Island | 110 | 43 | 49 | 12 | 4 [| 2 | ĺ |
| Vermont | 135 | 46 | 62 | 13 | 8 | 6 | 1 |
| Northwest Mountain Region—Total | 4,506 | 1,512 | 1,893 | 690 | 295 | 115 | ļ 47 |
| Colorado | 1,222 | 371 | 462 | 243 | 110 | 36 | 17 |
| Idaho | 275 | 102 | 121 | 34 | 12 (| 6 | 1 : |
| Montana | 223 | 81 | 109 | 23 | 10 | 0 | ! . |
| Oregon | 735 | 258 | 337 | 89 | 27 | 24 |] (|
| Utah | 296 | 134 | 92 | 44 | 18 | 8 | i : |
| Washington | 1,625 | 524 | 703 | 246 | 111 | 41 | 16 |
| Wyoming | 130 | 42 | 69 | 11 1 | 7 | 1 | l |
| Southern Region—Total | 6,249 | 2,290 | 2,464 | 894 | 506 | 95 | 5 |
| Alabama | 372 | 146 | 158 | 46 | 8 | 14 | ۱ ، |
| Florida | 2,813 | 890 | 1,208 | 462 | 214 | 39 | 2 |
| Georgia | 788 | 345 | 274 | 94 | 68 | 7 | - |
| Kentucky | 302 | 132 | 97 | 33 | 38 | 2 | |
| Mississippi | 177 | 88 | 58 | 20 | 9 | 2 | |
| North Carolina | 793 | 270 | 328 | 110 | 71 | 14 | { |
| South Carolina | 328 | 142 | 112 | 43 | 23 | 8 | |
| ı | 672 | 276 | 228 | 84 | 75 | 9 |) (|
| Armed Forces Europe 5 | 4 | 2/6 | 1 | 2 | ,3 | 0 | (|

Table 7.6—Continued ESTIMATED ACTIVE WOMEN PILOTS AND FLIGHT INSTRUCTORS BY FAA REGION AND STATE DECEMBER 31, 1992

| | Takal | | | Airplane 2 | | | Fr |
|------------------------------|-----------------|------------------------------------|-------|----------------------|---------|------------------------|-----|
| FAA Region and State | Total Pilots | Pilots Students Private Commercial | | Airline Transport | Misc. 3 | Flight Instructor 4 | |
| Southwest Region—Total | 4,013 | 1,407 | 1,711 | 547 | 265 | 83 | 394 |
| Arkansas | 237 | 81 | 110 | 39 | 7 | 0 | 18 |
| Louisiana | 295 | 119 | 105 | 47 | 16 | 8 | 33 |
| New Mexico | 300 | 89 | 134 | 43 | 20 | 14 | 40 |
| Oklahoma | 618 | 221 | 288 | 75 | 29 | 5 | 60 |
| Texas | 2,563 | 897 | 1,074 | 343 | 193 | 56 | 243 |
| Western-Pacific Region-Total | 7,928 | 2,442 | 3,580 | 1,115 | 529 | 262 | 794 |
| Arizona | 1,074 | 308 | 488 | 172 | 76 | 30 | 115 |
| California | 6,194 | 1,911 | 2,840 | 852 | 385 | 206 | 611 |
| Hawaii | 230 | 72 | 70 | 39 | 32 | 17 | 30 |
| Nevada | 370 | 111 | 167 | 49 | 35 | 8 | 37 |
| Armed Forces Pacific 6 | 60 | 40 | 15 | 3 | 1 | 1 | 1 |
| Outside U. S.—Total 7 | 1,214 | 369 | 424 | 299 | 67 | 55 | 94 |
| Other U. S. Areas: | 101 | 53 | 21 | 14 | 6 | 7 | 0 |
| Guam | 14 | 4 | 5 | 3 | 2 | 0 | 0 |
| Puerto Rico | 62 | 36 | 10 | 8 | 2 | 6 | ' o |
| Virgin Islands | 25 | 13 | 6 | 3 | 2 | 1 | . 0 |

¹ Category of certificate unknown.

² Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate

³ Includes helicopter, glider, and recreational pilots.

⁴ Not included in total.

⁵ Includes Outside U.S.

⁶ Military personnel holding civilian certificate stationed in foreign country.

⁷ Outside U.S. Includes Other U.S. Areas outside of the 50 states and foreign countries.

TABLE 7.7 ESTIMATED ACTIVE HELICOPTER PILOTS BY CLASS OF CERTIFICATE DECEMBER 31, 1983–1992

| Class of Certificate | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1963 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TOTAL | 32,158 | 32,605 | 32,741 | 31,602 | 31,340 | 31,513 | 31,667 | 31,206 | 30,507 | 30,090 |
| PrivateTotal | 4,188 | 4,007 | 3,640 | 3,176 | 2,962 | 2,721 | 2,539 | 2,300 | 2,206 | 2,067 |
| Private Helicopter | 1,917 | 1,864 | 1,572 | 1,264 | 1,143 | 1,019 | 892 | 808 | 712 | 615 |
| Private Helicopter, Private Airplane | 1,731 | 1,722 | 1,592 | 1,459 | 1,392 | 1,316 | 1,288 | 1,236 | 1,206 | 1,112 |
| Private Helicopter, Private Airplane, Private Glider | 68 | 71 | 67 | 58 | 60 | 55 | 47 | 48 | 48 | 47 |
| Private Helicopter, Commercial Airplane | 401 | 379 | 348 | 325 | 302 | 274 | 262 | 245 | 248 | 241 |
| Private Helicopter, Commercial Airplane, Commercial | | | l | 1 | i | | | | | |
| Gilder | 27 | 26 | 28 | 27 | 24 | 18 | 16 | 19 | 16 | 13 |
| Private Gyropiane | 16 | 15 | 11 | 12 | 15 | 10 | 9 | 5 | 6 | |
| Private Gyroplane, Private Airplane | 28 | 20 | 22 | 31 | 26 | 29 | 25 | 29 | 30 | 31 |
| CommercialTotal | 25,299 | 25,972 | 26,750 | 26,195 | 26,261 | 26,766 | 27,251 | 27,011 | 26,583 | 26,521 |
| Commercial Helicopter | 7,199 | 7,469 | 7,524 | 7,116 | 6,997 | 7,228 | 7,230 | 6,862 | 6,415 | 6,286 |
| Commercial Helicopter, Private Airplane | 4,561 | 4,405 | 4,357 | 4,186 | 4,081 | 3,904 | 3,805 | 3,713 | 3,457 | 3,216 |
| Commercial Helicopter, Private Glider | 5 | 7 | 4 | 6 | 7 | 5 | 6 | 5 | 2 | 3 |
| Commercial Helicopter, Commercial Glider | 4 | 2 | 3 | 2 | 4 | 5 | 6 | 9 | 9 | |
| Commercial Helicopter, Private Airplane, Commercial Gyroplane | 2 | 1 | 2 | 2 | ا | 2 | | | | |
| Commercial Helicopter, Private Airplane, | - 1 | '[| - | - |] ٔ | ء ۔ | 'i | , | '} | |
| Private Glider | 37 | 35 | 36 | 30 | 32 | 37 | 33 | 21 | 21 | 11 |
| Commercial Helicopter, Private Airplane, Commercial | 1 | | 1 | | | | | | | |
| Glider | 15 | 14 | 15 | 17 | 17 | 12 | 14 | 16 | 15 | 14 |
| Commercial Helicopter, Commercial Airplane | 12,767 | 13,316 | 14,036 | 14,085 | 14,346 | 14,778 | 15,335 | 15,550 | 15,817 | 16,142 |
| Commercial Helicopter, Commercial Airplane, Private | | ļ | ľ | Į. | | | [| | | |
| Gälder | 149 | 146 | 163 | 154 | 150 | 152 | 156 | 162 | 154 | 150 |
| Commercial Helicopter, Commercial Airplane, | | | | - | | | | | | |
| Commercial Glider | 509 | 518 | 543 | 535 | 562 | 587 | 609 | 814 | 632 | 625 |
| Commercial Gyropiane | 1 | 1] | 2 | 1 | 0 | | | | | |
| Commercial Helicopter, Commercial Airplane, | I | Í | Í | (| İ | | | | | |
| Commercial Gyropiane | 18] | 19 | 20 | 19 | 22 | 20 | 23 | 25 | 25 | 20 |
| Commercial Helicopter, Commercial Airplane, | 1 | l | Ì | i | ĺ | [| (| | | |
| Commercial Gyroplane, Commercial Gilder | 11 | 10 | 10 | 11] | 13 | 10 | 9 | 7 | 7 | 6 |
| Commercial Helicopter, Commercial Gyroplane | | 2 | 2 | 1 | 2 | 1 | 2 | 2 | 1 | 2 |
| Commercial Gyropiane, Commercial Airplane | 20 | 25 | 31 | 27 | 24 | 24 | 21 | 23 | 24 | 23 |
| Commercial Gyroplane, Commercial Airplane, | | ı | i | | | 1 | | | | |
| Commercial Glider | 1 | 2 | 2 | 3 | 2 | 1 | 1 1 | 1 | 3 | 3 |
| Airline Transport—Total | 2,671 | 2,536 | 2,351 | 2,231 | 2,126 | 2,026 | 1,907 | 1,905 | 1,658 | 1,502 |
| Airline Transport Helicopter | 508 | 500 | 449 | 461 | 440 | 433 | 435 | 432 | 387 | 316 |
| Airline Transport Helicopter, Airline Transport Airplane | 2,163 | 2,036 | 1,902 | 1,770 | 1,686 | 1,593 | 1,472 | 1,373 | 1,271 | 1,186 |

Table 7.8
ESTIMATED ACTIVE GLIDER PILOTS BY CLASS OF CERTIFICATE
DECEMBER 31, 1983–1992

| Class of Certificate | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1965 | 1984 | 1963 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total | 19,630 | 19,570 | 19,546 | 19,140 | 19,006 | 19,530 | 20,356 | 20,306 | 20,733 | 20,395 |
| Private—Total | 13,434 | 13,370 | 13,268 | 13,006 | 12,890 | 13,158 | 13,702 | 13,634 | 13,729 | 13,440 |
| Private Glider | 7,090 | 6,929 | 6,773 | 6,652 | 6,528 | 6,734 | 7,168 | 7,000 | 6,971 | 6.794 |
| Private Glider, Private Airplane | 4,030 | 4,113 | 4,144 | 4,049 | 4,059 | 4,105 | 4,144 | 4,234 | 4,347 | 4,269 |
| Private Glider, Private Airplane, Private Helicopter | 68 | 71 | 67 | 58 | 60 | 55 | 47 | 48 | 48 | 47 |
| Private Gilder, Private Airplane, | | | | | | | } | | | |
| Commercial Helicopter | 37 | 35 | 36 | 30 | 32 | 37 | 33 | 21 | 21 | 19 |
| Private Glider, Commercial Airplane | 2,055 | 2,072 | 2,081 | 2,057 | 2,063 | 2,070 | 2,148 | 2,164 | 2,186 | 2,158 |
| Private Glider, Commercial Airplane, | | | | | | | | | | |
| Commercial Helicopter | 149 | 146 | 163 | 154 | 150 | 152 | 156 | 162 | 154 | 150 |
| Private Glider, Commercial Helicopter | 5 | 4 | 4 | 6 | 7 | 5 | 6 | 5 | 2 | 3 |
| Commercial—Total | 6,205 | 6.200 | 6,278 | 6,143 | 6,196 | 6,372 | 6,663 | 6.674 | 7.004 | 6.965 |
| Commercial Glider | 1,115 | 1,104 | 1,060 | 1,056 | 1,072 | 1,167 | 1,243 | 1,168 | 1,419 | 1.363 |
| Commercial Glider, Commercial Airplane | 3,630 | 3,645 | 3,776 | 3,685 | 3,703 | 3,777 | 3.983 | 4.073 | 4,149 | 4,20€ |
| Commercial Gilder, Private Airplane | 893 | 878 | 841 | 807 | 799 | 795 | 772 | 767 | 754 | 716 |
| Commercial Glider, Private Airplane, | | | . [| | | | | _ | | |
| Commercial Helicopter | 15 | 14 | 15 | 17 | 17 | 12 | 14 | 16 | 15 | 14 |
| Commercial Gilder, Commercial Helicopter | 4 | 3 | 3 | 2 | 4 | 5 | 6 | 9 | 9 | 7 |
| Commercial Glider, Commercial Airplane, | | | | | | | | | | |
| Private Helicopter | 27 | 26 | 28 | 27 | 24 | 18 | 16 | 19 | 16 | 13 |
| Commercial Glider, Commercial Airplane, | | | | | | | _ | | 1 | |
| Commercial Helicopter | 509 | 518 | 543 | 535 | 562 | 587 | 609 | 614 | 632 | 625 |
| Commercial Glider, Commercial Airplane, | | | | | | | | | | |
| Commercial Gyropiane | 1 | 2 | 2 | 3 | 2 | 1 | 1 | 1 | 3 | 3 |
| Commercial Glider, Commercial Airplane, | | | ĺ | | | | | | - | _ |
| Commercial Gyroplane, Commercial Helicopter | 11 | 10 | 10 | 11 | 13 | 10 | 9 | 7 | 7 | я |

Table 7.9 ESTIMATED INSTRUMENT RATINGS HELD BY CLASS OF CERTIFICATE BY FAA REGION **DECEMBER 31, 1992**

| Class of Certificate | Total 1 | Alaskan | Central | Eastern | Great Lakes | New England | Northwest Mountain | Southern | South- west | Western Pacific | Outside U.S. ² |
|---------------------------------------|---------|---------|---------|---------------------------------------|----------------|----------------|-----------------------|----------|----------------|--------------------|------------------------------|
| Total—All Pliots | 306,169 | 3,914 | 13,230 | 38,196 | 46,027 | 13,100 | 28,961 | 59,879 | 37,461 | 49,723 | 15,640 |
| Airplane | · | · | | | | | 1 | | | | |
| Private—Total | 56,199 | 368 | 3,123 | 7,791 | 10,843 | 2,830 | 4,541 | 9,824 | 6,070 | 10,064 | 756 |
| Private Airplane (only) | 51,753 | 305 | 2,888 | 7,114 | 10,295 | 2,631 | 4,155 | 8,853 | 5,540 | 9,290 | 682 |
| Private Airplane, Private Glider | 1,096 | 7 | 37 | 178 | 172 | 60 | 67 | 186 | 96 | 262 | 11 |
| Private Airplane, Commercial Gilder . | 131 | , | 2 | 20 | 22 | 15 | 19 | 10 | 15 | 25 | 2 |
| Private Airplane, Private Helicopter | 470 | | 18 | 65 | 57 | 32 | 46 | 82 | 59 | 101 | 9 |
| Private Airplane, Private Glider, | 4,0 | · , | | ~[| • | - | - | | - | | • |
| Private Helicopter | 28 | o | ٥ | | 5 | 2 | 3 | | 1 | 7 | 2 |
| Private Airplane, | 20 | . " | ı, | 7 | • | • | \ |] [| | 1 | - |
| • | 2,688 | 54 | 176 | 404 | 289 | 88 | 229 | 679 | 355 | 365 | 49 |
| Commercial Helicopter | 4,000 | | 1/0 | 70 | 209 | 1 | 229 | 0,3 | 0 | 365 | |
| Private Airplane, Private Gyropiane | • | ٧ | . ' | ا ^ت ا | - | ' | ١ ، | ı ۲ | | ١ | |
| Private Airplane, Private Glider, | | _ | | | 0 | ١ . | | | | | |
| Commercial Helicopter | 19 | 0 | 1 | • | 0 | ٥ | 2 | 7 | 2 | 3 | C |
| Private Airplane, Commercial Glider, | _ | | | 1 | _ | | | | _ | | |
| Commercial Helicopter | 9 | 0 | 0 | 2 | 0 | 1 | 0 | 3 | 2 | 1 | _ |
| Private Airplane, Other | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | |
| CommercialTotal | 128,828 | 2,085 | 6,017 | 16,213 | 20,025 | 5,101 | 12,016 | 23,516 | 15,480 | 20,296 | 8,079 |
| Commercial Airplane (only) | 111,350 | 1,814 | 5,231 | 13,737 | 18,030 | 4,443 | 10,242 | 19,786 | 13,322 | 17,020 | 7,725 |
| Commercial Airplane, Private Gilder . | 1,795 | 26 | 77 | 272 | 277 | 67 | 177 | 325 | 196 | 355 | 23 |
| Commercial Airplane, Commercial | | | | | |] | | | | l | |
| Glider | 3,036 | 26 | 125 | 473 | 423 | 174 | 393 | 469 | 333 | 590 | 30 |
| Commercial Airplane, | | | | | | ļ | | 1 | | | |
| Private Helicopter | 365 | 2 | 20 | 56 | 47 | 17 | 29 | 65 | 33 | 78 | 18 |
| Commercial Airplane, | | | | | | 1 | | l l | | | |
| Commercial Helicopter | 11,612 | 207 | 532 | 1,580 | 1,179 | 366 | 1,100 | 2,753 | 1,527 | 2,096 | 272 |
| Commercial Airplane, Private Glider, | | | | | | ļ | } | } | |) ! | |
| Commercial Helicopter | 132 | 2 | 5 | 21 | 17 | 7 | 18 | 26 | 11 | 22 | 3 |
| Commercial Airplane, Commercial | | | | | | ì | } | | | | |
| Glider, Commercial Helicopter | 468 | 7 | 22 | 68 | 39 | 25 | 51 | 83 | 51 | 117 | 5 |
| Commercial Airplane, | | | | · · · · · · · · · · · · · · · · · · · | | l | Į | | | | |
| Commercial Gyroplane | 17 | 1 | 3 | اه | 5 | 1 | 2 | 2 | 1 | 2 | |
| Commercial Airplane, Commercial | | | | | | [| _ | _ | | <u> </u> | |
| Helicopter, Commercial Gyropiane | 17 | a | 1 | , | 1 | ه ا | 2 | 3 | 1 | 6 | 2 |
| Commercial Airplane, Commercial | | Ĭ | , | | • | Ì | _ | | | [] | _ |
| Gyroplane, Commercial Glider | 1 | 0 | 0 | اه | 0 | ٥ | | ا | ٥ | , | |
| Conimercial Airplane, Commercial | • | Ĭ | • | ٦ | • | ٦ | " | Ĭ | | ' | • |
| Glider, Private Helicopter | 25 | ٥ | ٥ | | 8 | | Ι. | ا | 3 | 6 | |
| Commercial Airplane, Commercial | 25 | ٦ | | 3 | • | ' | ' | - | 3 | " | ' |
| Gyroplane, Commercial Helicopter, | | | | | | ĺ | İ | i i | | 1 | |
| | ** | | | ام | | ١. | ١. | ا | , | ا ا | |
| Commercial Glider | 0f | 0 | | | 44.40 | | | 2 | 40.00 | 3 | - |
| Airline Transport—Total | 115,855 | 1,393 | 3,832 | 13,364 | 14,636 | 4,972 | 1 | 25,087 | 15,156 | 18,720 | 6,707 |
| Airline Transport Airplane (only) | 113,692 | 1,328 | 3,786 | 12,991 | 14,452 | 4,846 | 11,802 | 24,629 | 14,815 | 18,409 | 6,634 |
| Airline Transport Airplane, Airline | | ! | | | | | | ا ــــا | | | |
| Transport Helicopter | 2,163 | 65 | 46 | 373 | 184 | 126 | 187 | 458 | 340 | 311 | 73 |
| Rotorcraft (only)—Total | 5,267 | 68 | 267 | 828 | 523 | 206 | 435 | 1,452 | 756 | 653 | 96 |
| Commercial Helicopter | 5,214 | 67 | 266 | 818 | 515 | 202 | _ | 1,439 | 742 | 642 | 96 |
| Airline Transport Helicopter | 58 | 1 | 1 | 8 | 5 | 3 | 8 | 11 | 12 | 6 | 3 |
| Other | 15 | 0 | 0 | 2 | 3 | 1 | 0 | 2 | 2 | _ 5 | 0 |

¹ Includes Outside U.S. total. 2 Outside U.S. includes airmen certificated by FAA who live outside the 50 states or foreign countries.

Table 7.10 ESTIMATED INSTRUMENT RATINGS HELD BY CLASS OF CERTIFICATE DECEMBER 31, 1983 - 1992

| Class of Certificate | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|---|---------|---------|----------|---------|---|---------|---------|---------|---------|---|
| Total—All Pilots | 254,271 | 256,584 | 258,559 | 262,388 | 266,122 | 273,804 | 282,804 | 297,073 | 303,193 | 306,169 |
| Airplane | | | | | | | | | 1 | |
| Private —Total | 41,951 | 43,312 | 43,902 | 45,672 | 47,746 | 49,381 | 51,067 | 53,920 | 55,557 | 56,199 |
| Private Airplane (only) | 38,836 | 39,962 | 40,330 | 41,947 | 43,885 | 45,316 | 46,859 | 49,550 | 51,215 | 51,753 |
| Private Airplane, Private Glider | 921 | 964 | 954 | 955 | 983 | 1,007 | 1,023 | 1,069 | 1,103 | 1,096 |
| Private Airplane, Commercial Glider | 86 | 82 | 85 | 95 | 102 | 108 | 119 | 122 | 134 | 131 |
| Private Airplane, Private Helicopter | 267 | 295 | 313 | 318 | 332 | 356 | 403 | 432 | 451 | 470 |
| Private Airplane, Private Glider, | 1 | | | | | | | | | |
| Private Helicopter | 19 | 17 | 16 | 20 | 25 | 25 | 27 | 32 | 31 | 28 |
| Private Airplane, Commercial Helicopter | 1,797 | 1,968 | 2,180 | 2,302 | 2,385 | 2,537 | 2,606 | 2,683 | 2,594 | 2,688 |
| Private Airplane, Private Gyroplane | 4 | 3 | 2 | 2 | 3 | 3 | 5 | 5 | 3 | 4 |
| Private Airplane, Private Glider, | } | | | | | | | | | |
| Commercial Helicopter | 10 | 10 | 11 | 20 | 21 | 15 | 12 | 16 | 16 | 19 |
| Private Airplane, Commercial Glider, | | | | | | | | | | |
| Commercial Helicopter | 10 | 10 | 10 | 12 | 9 | 13 | 12 | 10 | 9 | 9 |
| Private Airplane, Other | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Commercial Pilots—Total | 131,445 | 128,978 | 126,352 | 123,559 | 121,072 | 121,674 | 123,908 | 129,426 | 129,774 | 128.828 |
| Commercial Airplane (only) | 111,188 | 108,916 | 106,522 | 103,913 | 102.017 | 102,982 | 105,402 | 110,719 | 111,835 | 111,350 |
| Commercial Airplane, Private Glider | 1,823 | 1,833 | 1,826 | 1,825 | 1,756 | 1,778 | 1,783 | 1,825 | 1,802 | 1,795 |
| Commercial Airplane, Commercial Glider | 3,360 | 3,355 | 3,318 | 3,227 | 3,098 | 3.033 | 3,037 | 3,141 | 3.048 | 3,036 |
| Commercial Airplane, Private Helicopter | 188 | 203 | 208 | 224 | 234 | 264 | 282 | 307 | 336 | 365 |
| Commercial Airplane, Commercial Helicopter | 14,139 | 13,913 | 13,723 | 13.624 | 13,250 | 12.911 | 12,708 | 12,716 | 12,079 | 11,612 |
| Commercial Airplane, Private Glider, | , | , | , | | , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ,_,,,,, | ,_,,, | 12,710 | ,_,,,,, | , |
| Commercial Helicopter | 138 | 141 | 151 | 143 | 134 | 132 | 136 | 145 | 130 | 132 |
| Commercial Airplane, Commercial Glider, | | | | | | | | , | | ,02 |
| Commercial Helicopter | 558 | 561 | 549 | 549 | 526 | 506 | 488 | 496 | 474 | 468 |
| Commercial Airplane, Commercial Gyroplane | 14 | 14 | 14 | 13 | 15 | 15 | 19 | 22 | 18 | 17 |
| Commercial Airplane, Commercial Helicopter, | ['7] | | | | | | | | , , | • |
| Commercial Gyroplane | 16 | 20 | 18 | 16 | 15 | 18 | 16 | 17 | 16 | 17 |
| Commercial Airplane, Commercial Gyroplane, | | | | | | | | '' | | '' |
| Commercial Glider | 2 | 2 | - 1 | 1 | 1 | 1 | 2 | 2 | 2 | |
| Commercial Airplane, Commercial Glider, | [| - | • | | ' | ' | - | - | ٤ | • |
| Private Helicopter | 12 | 13 | 15 | 15 | 16 | 21 | 24 | 27 | 25 | 25 |
| Commercial Airplane, Commercial Gyroplane, | اءً' | 13 | 13 | 13 | 10 | -1 | 24 | - " | 25 | 23 |
| Commercial Helicopter. | | | [| | | | | | | |
| Commercial Glider | - | , | 7 | اه | 10 | 13 | 11 | ۰ | 9 | 10 |
| Airline Transport—Total | 75,938 | 79.192 | 82,740 | 87,186 | 91,287 | 96,968 | 102,087 | 107,732 | 112,167 | 115.855 |
| Airline Transport Airplane (only) | 74,752 | 77,921 | 81,367 | 85,714 | 89,694 | 95,282 | 100,317 | , | | |
| Airline Transport Airplane, Airline Transport | /4,/52 | 77,921 | 61,367 | 03,714 | 09,094 | 90,202 | 100,317 | 105,830 | 110,131 | 113,692 |
| Helicopter | 1,186 | 1,271 | 1.373 | 1,472 | 1,593 | 1.686 | 1.770 | 1 000 | 2 000 | 0.100 |
| Rotorcraft (only)—Total | ., | | | , | ,, | ,, | ., | 1,902 | 2,036 | 2,163 |
| * ** | 4,937 | 5,102 | 5,565 | 5,971 | 6,017 | 5,781 | 5,742 | 5,995 | 5,695 | 5,287 |
| Commercial Helicopter | 4,864 | 5,016 | 5,472 | 5,873 | 5,927 | 5,695 | 5,660 | 5,923 | 5,624 | 5,214 |
| Airline Transport Helicopter | 60 | 73 | 82 11 | 89 9 | 81 9 | 75 | 71 | 62 | 59 | 58 |
| Other | 13 | 13 | 11] | 9 | 9) | 11 | 11 | 10 | 12 | 15 |

Table 7.11
ESTIMATED TOTAL PILOTS AND INSTRUMENT RATED PILOTS
DECEMBER 31, 1983–1992

| 0.1 | 7-4-1 | instrument F | Percent of Total 54% 53% 52% 51% 49% | | | |
|--------------|--|--------------|--|--|--|--|
| Year Year | Calendar Year Total Number 1 1992 568,362 1991 571,892 1990 574,208 1989 557,466 1988 557,103 1987 553,637 1986 558,845 1985 562,888 1984 572,295 | Number | | | | |
| 1992 | 568,362 | 306,169 | 54% | | | |
| 1991 | 571,892 | 303,193 | 53% | | | |
| 1990 | 574,208 | 297,073 | 52% | | | |
| 1989 | 557,466 | 282,804 | 51% | | | |
| 1988 | 557,103 | 273,804 | 49% | | | |
| 1987 | 553,637 | 266,122 | 48% | | | |
| 1986 | 558,845 | 262,388 | 47% | | | |
| 1985 | 562,888 | 258,559 | 46% | | | |
| 1984 | 572,295 | 256,584 | 45% | | | |
| 1983 | 570,807 | 254,271 | 45% | | | |

¹ Excludes student pilots.

Table 7.12 ESTIMATED ACTIVE PILOT CERTIFICATES HELD BY CATEGORY AND AGE GROUP OF HOLDER **DECEMBER 31,1992**

| | ł | | | Type of Pilot | Certificate | | | | |
|-------------|---------|-----------|--------------|--------------------|-------------|----------------------|----------------------|----------|--------------|
| Age Group | | | | | Airplane 2 | | Halisantas | Glider | Flight |
| | Total | Student 1 | Recreational | Private Commercial | | Airline Transport | Helicopter (Only) | (Only) 3 | Instructor 4 |
| Total | 682,959 | 114,597 | 191 | 288,078 | 146,385 | 115,855 | 9,652 | 8,201 | 72,148 |
| 14-15 | 30 | 30 | o l | 0 | 0 | 0 | 0 | 0 | • |
| 16-19 | 16,793 | 12,142 | 4 | 4,251 | 272 | 0 | 44 | 80 | 79 |
| 20-24 | 55,416 | 19,890 | 9 | 21,285 | 12,654 | 413 | 937 | 228 | 6,272 |
| 25-29 | 74,780 | 19,142 | 11 | 24,480 | 21,985 | 6,372 | 2,374 | 416 | 10,925 |
| 30-34 | 88,511 | 17,805 | 18 | 33,498 | 17,698 | 16,853 | 1,889 | 750 | 9,769 |
| 35-39 | 94,149 | 15,208 | 37 | 41,786 | 15,493 | 18,960 | 1,369 | 1,296 | 9,074 |
| 40-44 | 90,190 | 11,485 | 19 | 41,485 | 15,311 | 19,099 | 1,413 | 1,378 | 8,876 |
| 45-49 | 84,429 | 7,979 | 24 | 36,424 | 17,872 | 19,930 | 1,031 | 1,169 | 9,063 |
| 50-54 | 62,234 | 4,731 | 17 | 27,337 | 13,708 | 15,361 | 357 | 723 | 6,448 |
| 55-59 | 45,355 | 2,766 | 14 | 20,355 | 11,040 | 10,492 | 145 | 543 | 4,751 |
| 60 and over | 71,072 | 3,419 | 38 | 37,177 | 20,352 | 8,375 | 93 | 1,618 | 6,891 |

1 Category of certificate unknown.
2 Includes pitots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate
3 Glider pitots are not required to have a medical examination; however, totals above represent pilots who received a medical examination.
4 Not included in total active pilots.

Table 7.13 AVERAGE AGE OF ACTIVE PILOTS BY CATEGORY DECEMBER 31, 1983-1992

| | | | Type of Pilot | Certificate | • | Airline Transport 41.5 42.0 42.7 42.4 42.6 42.7 42.7 42.6 42.7 43.0 42.7 43.0 42.7 43.0 42.7 43.0 43.0 43.0 43.0 43.0 43.0 43.0 43.0 | | | | | | |
|------------------|---------|----------|---------------------------|-------------|------------|--|--|--|--|--|--|--|
| Calendar Year | | | | | Airplane 3 | | | | | | | |
| 1 991 | Total 1 | Student? | Recreational ² | Private | Commercial | | | | | | | |
| 1983 | 38.8 | 31.7 | N/A | 40.0 | 41.5 | 42.5 | | | | | | |
| 1984 | 39.2 | 32.1 | N/A | 40.4 | 42.0 | 42.7 | | | | | | |
| 1985 | 39.5 | 32.4 | N/A | 40.8 | 42.4 | 42.8 | | | | | | |
| 1986 | 39.7 | 32.2 | N/A] | 41.1 | 42.6 | 43.0 | | | | | | |
| 1987 | 39.9 | 32.3 | N/A I | 41.4 | 42.7 | 43.1 | | | | | | |
| 1988 | 40.1 | 32.5 | N/A | 41.4 | 42.6 | 43.2 | | | | | | |
| 1969 | 40.2 | 32.7 | N/A | 41.8 | 42.5 | 43.4 | | | | | | |
| 1990 | 40.5 | 32.5 | 41.7 | 42.0 | 42.2 | 43.6 | | | | | | |
| 1991 | 40.5 | 32.6 | 43.5 | 42.0 | 41.8 | 43.7 | | | | | | |
| 1992 | 40.8 | 32.9 | 44.4 | 42.2 | 41.7 | 43.8 | | | | | | |

Includes helicopter (only) and glider (only) not shown separately.
 Category of certificate unknown.
 Includes pilots with an airplane only certificate. Also includes those with an airplane and a helicopter and/or glider certificate N/A Not available. Recreational certificate first issued in 1990.

Table 7.14 NONPILOT AIRMEN CERTIFICATES HELD BY FAA REGION AND STATE DECEMBER 31, 1992 1

| FAA Region and State | Total | Mechanic | Parachute Rigger | Ground Instructor | Dispatcher | Flight Navigator | Flight Engineer |
|---------------------------------|---------|---------------------------------------|---------------------|----------------------|------------|---------------------|--------------------|
| Total 2 | 540,548 | 384,669 | 8,163 | 73,276 | 12,264 | 1,154 | 61,02 |
| United States—Total | 516,072 | 367,698 | 7,970 | 70,931 | 9,898 | 1,133 | 58,442 |
| Alaskan Region—Total | | 3,805 | 117 | 883 | 240 | 8 | 513 |
| Central Region—Total | | 19,951 | 385 | 3,540 | 174 | 5 | 1,433 |
| lowa | | 2,358 | 85 | 568 | 13 | اة | 112 |
| Kansas | | 5,616 | | | · · | - 1 | |
| | | • | 99 | 1,057 | 43 | 1 | 322 |
| Missouri | 1 | 10,304 | 138 | 1,540 | 107 | 3 | 871 |
| Nebraska | | 1,673 | 63 | 375 | 11 | 1 | 128 |
| Eastern Region—Total | | 52,608 | 1,253 | 9,791 | 2,255 | 180 | 6,115 |
| Delaware | 1,391 | 1,006 | 21 | 164 | 20 | 4 | 176 |
| District of Columbia | 360 | 221 | 17 | 85 | 18 | 0 [| 19 |
| Maryland | 4,916 | 3,077 | 111 | 954 | 80 | 12 | 682 |
| New Jersey | 11,770 | 8,443 | 185 | 1,476 | 350 | 46 | 1.270 |
| New York | i . | 20,746 | 242 | 2,744 | 1,224 | 47 | 984 |
| Pennsylvania | 1 | 12,903 | 307 | 2,446 | 382 | 37 | 1,352 |
| Virginia | , – 1 | 4,805 | 300 | 1,605 | 171 | 34 | 1,544 |
| West Virginia | | 880 | | • | | _ | • |
| • | | | 42 | 245 | 6 | 0 | 71 |
| Armed Forces Europe 3 | | 527 | 28 | 72 | 4 | 0 | 17 |
| Great Lakes Region—Total | , , , | 49,180 | 1,062 | 11,241 | 1,306 | 31 | 7,346 |
| Illinois | , | 12,264 | 246 | 2,875 | 394 | 12 | 2,615 |
| Indiana | 7,176 | 5,129 | 152 | 1,138 | 85 | 3 | 669 |
| Michigan | 11,039 | 7,888 | 163 | 2,124 | 120 | 4 | 740 |
| Minnesota | 12,636 | 8,928 | 113 | 1,412 | 461 | 3 | 1,719 |
| North Dakota | 1,265 | 1,019 | 19 | i 73 | 7 | 1 | 46 |
| Ohio | | 9,269 | 237 | 2,284 | 162 | 6 | 963 |
| South Dakota | 1 1 | 823 | 16 | 221 | 6 | o l | 79 |
| Wisconsin | 1 1 | 3,860 | 116 | 1,014 | 71 | 2 | 515 |
| New England Region—Total | | | | • | 308 | J | |
| _ = | 1 1 | 14,813 | 277 | 3,080 | | 134 | 2,639 |
| Connecticut | 1 ' 1 | 4,374 | 68 | 840 | 95 | 89 | 944 |
| Maine | 1 1 | 1,015 | 39 | 278 | 35 | 7 } | 174 |
| Massachusetts | 1 1 | 7,144 | 123 | 1,199 | 113 | 14 | 604 |
| New Hampshire | 1 ' 1 | 1,201 | 25 | 443 | 36 | 19 | 730 |
| Rhode Island | 886 | 621 | 12 | 161 | 12 | 1 | 79 |
| Vermont | 756 | 458 | 10 | 159 | 17 | 4 ! | 108 |
| Northwest Mountain Region—Total | 47,153 | 30,827 | 1,169 | 6,902 | 620 | 136 | 7,499 |
| Colorado | 14,430 | 8,974 | 139 | 2,218 | 230 | 27 | 2,842 |
| kdaho | 1 1 | 1,316 | 177 | 338 | 15 | 7 | 139 |
| Montana | | 1,498 | 243 | 374 | 8 | 4 | 122 |
| Oregon | | 3,567 | 199 | 856 | 54 | 18 | 323 |
| | | · · · · · · · · · · · · · · · · · · · | i i | | | | |
| Utah | 1 ' 1 | 2,347 | 74 | 526 | 28 | 7 | 850 |
| Washington | | 12,140 | 307 | 2,410 | 274 | 70 | 3,128 |
| Wyoming | | 985 | 30 | 180 | 11 | 3 | 95 |
| Southern Region—Total | , | 66,118 | 1,511 | 13,138 | 2,283 | 246 | 14,758 |
| Alabama | ., | 5,516 | 110 | 1,038 | 14 | 9 | 234 |
| Florida | 43,597 | 29,718 | 488 | 5,932 | 1,330 | 184 | 5,945 |
| Georgia | 20,225 | 13,743 | 208 | 1,746 | 372 | 16 | 4,140 |
| Kentucky | 3,989 | 2,307 | 133 | 604 | 123 | اه | 822 |
| Mississippi | | 1,574 | 31 | 400 | 13 | 5 | 168 |
| North Carolina | 1 | 6,096 | 313 | 1,470 | 157 | 21 | 1,465 |
| South Carolina | 1 ' 1 | 2,472 | 76 | 662 | 28 | 3 | 443 |
| Tennessee | | | | 1,278 | | 8 | |
| | 1 ., | 4,650 | 149 | | 246 | - 1 | 1,541 |
| Armed Forces Europe 3 | , , | 42 | 3 | 8 | 0 | 0 | 0 |
| Southwest Region—Total | | 55,515 | 882 (| 9,456 | 1,130 | 71 | 8,182 |
| Arkansas | | 2,309 | 65 | 521 | 23 | 1 | 202 |
| Louisiana | 5,377 | 4,156 | 78 | 716 | 46 | 7 | 374 |
| New Mexico | 2,683 | 1,870 | 61 | 562 | 31 | 5 | 154 |
| Oklahoma | , | 14,868 | 154 | 1,519 | 34 | 4 | 402 |
| Texas | 47,074 | 32,312 | 524 | 6,138 | 996 | 54 | 7,050 |

Table 7.14—Continued NONPILOT AIRMEN CERTIFICATES HELD BY FAA REGION AND STATE **DECEMBER 31, 1992** 1

| FAA Region and State | Total | Mechanic | Parachute Rigger | Ground Instructor | Dispatcher | Flight Navigator | Flight Engineer |
|------------------------------|---------|----------|---------------------|----------------------|------------|---------------------|--------------------|
| Western-Pacific Region—Total | 100,956 | 74,881 | 1,314 | 12,900 | 1,582 | 322 | 9,957 |
| Arizona | 12,150 | 8,698 | 166 | 1,958 | 271 | 21 | 1,036 |
| California | 81,123 | 61,116 | 1,020 | 9,849 | 1,088 | 240 | 7,810 |
| Hawaii | 3,711 | 2,712 | 34 | 415 | 154 | 7 | 389 |
| Nevada | 3,517 | 1,999 | 60 | 632 | 58 | 54 | 714 |
| Armed Forces Pacific 3 | 455 | 356 | 34 | 46 | 11 | 0 | 8 |
| Outside U. S.—Total 4 | 24,476 | 16,971 | 193 | 2,345 | 2,366 | 21 | 2,580 |
| Other U. S. Areas: | 1,890 | 1,401 | 35 | 237 | 86 | 0 | 131 |
| American Samoa | 18 | 12 | 0 | 5 | 0 | 0 | 1 |
| Canal Zone | 36 | 13 | 18 | 3 | 2 | 0 | 0 |
| Guam | 276 | 152 | 3 | 31 | 8 | 0 | 82 |
| Puerto Rico | 1,398 | 1,107 | 12 | 168 | 73 | 0 | 38 |
| Virgin Islands | 153 | 108 | 2 | 30 | 3 | 0 | 10 |
| Wake Island | 9 | 9 | 0 | 0 | 0 | 0 | C |

<sup>Data for flight engineers and flight navigators represent total active ratings held; i.e., those with a valid medical certificate. Data for dispatchers, mechanics, parachute riggers and ground instructors represent total ratings issued to date; no medical examination required.

Includes Outside U.S.

Military personnel holding civilian certificate stationed in foreign country.

Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.</sup>

Table 7.15 WOMEN NONPILOT CERTIFICATES HELD BY FAA REGION AND STATE DECEMBER 31, 1992 1

| FAA Region and State | Total | Mechanic | Parachute Rigger | Ground Instructor | Dispatcher | Flight Navigator | Flight Engineer |
|---------------------------------|--------|----------|---------------------|----------------------|------------|---------------------|--------------------|
| Total 2 | 11,514 | 4,398 | 390 | 4,338 | 1,004 | 0 | 1,384 |
| United States—Total | 11,271 | 4,369 | 378 | 4,230 | 932 | 0 | 1,362 |
| Alaskan Region—Total | 187 | 50 | | 59 | 56 | o | · |
| | | | 40 | | 1 | - 1 | 10 |
| Central Region—Total | 474 | 247 | 13 | 183 | 8 | 0 | 23 |
| lowa | 86 | 46 | 0 | 34 | 3 | 0 | 3 |
| Kansas | 176 | 104 | 5 | 59 | 0) | 0) | |
| Missouri | 168 | 82 | 5 | 65 | 5 | 0 | 11 |
| Nebraska | 44 | 15 | 3 | 25 | 0 | o l | • |
| Eastern Region—Total | 1,355 | 379 | 75 | 548 | 194 | ol | 150 |
| Delaware | 34 | 14 | 1 | 11 | 3 | ō | |
| District of Columbia | 11 | 1 | 1 | 5 | 1 | o l | |
| Maryland | 120 | 25 | 2 | 61 | 12 | ŏ | 20 |
| · · · · | | | | | | ő | |
| New Jersey | 181 | 50 | 8 | 66 | 34 | • | 23 |
| New York | 421 | 131 | 14 | 155 | 90 | 0 | 31 |
| Pennsylvania | 328 | 83 | 25 | 142 | 46 | 0 | 32 |
| Virginia | 217 | 53 | 21 | 93 | 7 | 0 | 43 |
| West Virginia | 29 | 18 | 0 | 10 | 1 | . 0 | (|
| Armed Forces Europe 3 | 14 | 4 | 3 | 5 | o | o l | |
| Great Lakes Region—Total | 1,795 | 657 | 52 | 712 | 147 | o | 227 |
| Illinois | 523 | 183 | 13 | 197 | 32 | o | 98 |
| Indiana | 188 | 54 | 16 | 70 | 10 | ŏÌ | 38 |
| | | | | | | - 1 | |
| Michigan | 278 | 85 | 6 | 151 | 16 | 0 | 20 |
| Minnesota | 276 | 119 | 3 | 67 | 52 | 0 | 35 |
| North Dakota | 17 | 5 | 0 | 10 | 1 | 0 | 1 |
| Ohio | 348 | 167 | 10 | 131 | 23 | 0 | 17 |
| South Dakota | 28 | 9 | 0 | 16 | 2 | 0 | • |
| Wisconsin | 137 | 35 | 4 | 70 | 11 | 0 | 17 |
| New England Region—Total | 455 | 160 | 14 | 196 | 24 | o l | 61 |
| Connecticut | 157 | 70 | 3 | 49 | 13 | 0 | 22 |
| Maine | 41 | 10 | 2 | 20 | 3 | اه | |
| Massachusetts | 165 | 52 | 7 | 83 | 6 | ŏĺ | 17 |
| | 64 | 21 | 1 | 28 | 2 | ŏ | 12 |
| New Hampshire | | | | _ | | · 1 | |
| Rhode Island | 12 | 5 | 0 | 6 | 0 | 0 | 1 |
| Vermont | 16 | 2 | 1 | 10 | 0 | 0 | 3 |
| Northwest Mountain Region—Total | 1,211 | 467 | 26 | 451 | 58 | 0 | 207 |
| Colorado | 422 | 152 | 0 | 152 | 16 | 0 | 102 |
| Idaho | 39 | 11 | 2 | 21 | 4 | 0 | 1 |
| Montana | 38 | 7 | 4 | 23 | 2 | 0 | 2 |
| Oregon | 124 | 34 | 7 | 73 | 3 | 0 | 7 |
| Utah | 80 | 33 | 6 | 28 | 3 | o | 10 |
| Washington | 468 | 213 | 7 | 141 | 28 | ŏ | 79 |
| <u> </u> | 40 | 17 | 2 | 13 | 2 | ő | , |
| Wyoming | | | | | _ | · · · | - |
| Southern Region—Total | 1,993 | 652 | 99 | 765 | 183 | 0 | 294 |
| Alabama | 174 | 72 | 4 | 94 | 1 | 0 | |
| Florida | 875 | 283 | 25 | 328 | 108 | 0 | 131 |
| Georgia | 232 | 99 | 6 | 72 | 16 | 0 | 39 |
| Kentucky | 125 | 29 | 6 | 40 | 22 | 0 | 28 |
| Mississippi | 38 | 14 | 1 | 19 | 1 | 0 | 3 |
| North Carolina | 227 | 63 | 25 | 102 | 8 | ol | 29 |
| South Carolina | 82 | 31 | 2 | 37 | 3 | ٥١ | |
| Tennessee | 239 | 60 | 30 | 73 | 24 | ŏ | 52 |
| | 238 | | 30 | , , , | | ől | 94 (|
| Armed Forces Europe 3 | 1 | 1 | - | - 1 | 0 | · · · · · · | |
| Southwest Region—Total | 1,517 | 695 | 45 | 525 | 128 | 0 | 124 |
| Arkansas | 52 (| 21 | 1 | 23 | 2 | 0 | |
| Louisiana | 108 | 52 | 2 | 40 | 8 | 0 | e |
| New Mexico | 77 | 23 | 2 | 45 | 2 | 0 | 5 |
| Oklahoma | 324 | 215 | 8 | 92 | 1 | 0 | ε |
| Texas | 956 | 384 | 32 | 325 | 115 | ōl | 100 |

2929.FMT 04/29/93

Table 7.15—Continued WOMEN NONPILOT CERTIFICATES HELD BY FAA REGION AND STATE **DECEMBER 31, 1992** 1

| FAA Region and State | Total | Mechanic | Parachute Rigger | Ground Instructor | Dispatcher | Flight Navigator | Flight Engineer |
|------------------------------|-------|----------|---------------------|----------------------|------------|---------------------|--------------------|
| Western-Pacific Region—Total | 2,284 | 1,062 | 46 | 791 | 134 | 0 | 251 |
| Arizona | 303 | 126 | 4 | 125 | 24 | 0 | 24 |
| California | 1,807 | 889 | 37 | 601 | 80 | 0 | 200 |
| Hawaii | 98 | 26 | 0 | 36 | 23 | 0 | 13 |
| Nevada | 70 | 20 | 2 | 28 | 6 | 0 | 14 |
| Armed Forces Pacific3 | 6 | 1 | 3 | 1 | 1 | 0 | 0 |
| Outside U. STotal 4 | 243 | 29 | 12 | 108 | 72 | 0 | 22 |
| Other U. S. Areas: | 25 | 11 | 0 | 11 | 1 | 0 | 2 |
| American Samoa | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Canal Zone | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Guam | 5 | 3 | 0 ! | 0 | 0 | 0 | 2 |
| Puerto Rico | 15 | 5 | 0 : | 9 | 1 | 0 | 0 |
| Virgin Islands | 5 | 3 | 0 | 2 | 0 | 0 | 0 |
| Wake Island | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

¹ Data for flight engineers and flight navigators represent total active ratings held; i.e., those with a valid medical certificate. Data for dispatchers, mechanics, parachute riggers and ground instructors represent total ratings issued to date; no medical examination required.

² Includes Outside U. S.

³ Military personnel holding civilian certificate stationed in foreign country.

4 Outside U.S. includes Other U.S. Areas outside of the 50 states and foreign countries.

TABLE 7.16 PILOT CERTIFICATES ISSUED BY CATEGORY AND CONDUCTOR DECEMBER 31, 1992

| Cotocoo et Contiliante | Total | | Original I | ssuances | } | Additional Ratings | | | | |
|---------------------------------|-------------------|---------|------------|-----------|---------|--------------------|----------|-----------|---------|--|
| Category of Certificate | Ratings Issued | Total | Examiner | Inspector | No Test | Total | Examiner | inspector | No Test | |
| Pliot—Total | 188,292 | 143,532 | 129,289 | 670 | 13,573 | 44,760 | 39,253 | 1,321 | 4,186 | |
| Student | 78,377 | 78,377 | 78,377 | 0 | 0 | N/AP | N/AP | N/AP | N/AF | |
| Recreational | 74 | 74 | 65 | 4 | 5 | 0 | 0 | 0 | C | |
| Airplane | | | | | | | | | | |
| Private | 59,384 | 39,968 | 31,862 | 193 | 7,913 | 19,416 | 17,295 | 138 | 1,983 | |
| Commercial | 25,984 | 14,354 | 10,207 | 31 | 4,116 | 11,630 | 9,625 | 173 | 1,832 | |
| Airline Transport | 21,090 | 7,699 | 6,811 | 367 | 521 | 13,391 | 12,078 | 998 | 315 | |
| Helicopter (only) | 2,975 | 2,684 | 1,616 | 61 | 1,007 | 291 | 226 | 12 | 53 | |
| Glider (only) | 408 | 376 | 351 | 14 | 11 | 32 | 29 | 0 | | |
| NonpilotTotal | 34,810 | 27,543 | 20,253 | 426 | 6,864 | 7,267 | 5,791 | 67 | 1,409 | |
| Mechanic | 27,031 | 20,532 | 17,373 | 27 | 3,132 | 6,499 | 5,639 | 15 | 845 | |
| Parachute Rigger | 254 | 232 | 134 | 14 | 84 | 22 | 12 | 1 | 9 | |
| Ground Instructor | 4,026 | 3,508 | 355 | 15 | 3,138 | 518 | 59 | 3 | 456 | |
| Dispatcher | 674 | 674 | 498 | 130 | 46 | 0 | 0 | 0 | (| |
| Flight Navigator | 2 | 2 | 1 | 0 | 1 | 0 | 0 | 0 | | |
| Flight Engineer | 2,823 | 2,595 | 1,892 | 240 | 463 | 228 | 81 | 48 | 99 | |
| Flight Instructor Certificates* | 15,312 | 7,151 | 5,488 | 1,429 | 234 | 8,161 | 7,854 | 288 | 19 | |

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot-aircraft category, class, and type instrument rating.

Helicopter pilot-instrument and type ratings.

Flight instructor-ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic—airframe and powerplant ratings.

Parachute rigger—senior or master rigger—senior or master rigger ratings.

Ground instructor-ratings for each subject in which the holder is qualified to give instruction.

* Special ratings shown on pilot certificates represented above; not included in total.

N/AP—not applicable

Table 7.17 ORIGINAL AIRMEN CERTIFICATES ISSUED BY CATEGORY CALENDAR YEARS 1983-1992

| Category of Certificate | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|----------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Pilot—Total | 150,419 | 141,761 | 135,589 | 141,625 | 149,640 | 148,018 | 146,951 | 156,955 | 161,009 | 143,532 |
| Student | 92,239 | 90,085 | 86,060 | 88,699 | 85,611 | 86,193 | 87,427 | 88,586 | 82,205 | 78,377 |
| Recreational | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 29 | 87 | 74 |
| Airplane | - | ļ | • | | | | j | | j | |
| Private | 41,210 | 36,545 | 35,402 | 34,816 | 42,278 | 39,900 | 35,360 | 41,749 | 49,580 | 39,968 |
| Commercial | 8,789 | 7,702 | 5,404 | 8,889 | 11,314 | 12,042 | 13,759 | 15,500 | 16,869 | 14,354 |
| Airline Transport | 5,643 | 5,099 | 6,081 | 6,498 | 7,678 | 7,461 | 7,829 | 8,013 | 8,437 | 7,699 |
| Helicopter (only) | 1,932 | 1,806 | 2,105 | 2,209 | 2,217 | 1,947 | 2,240 | 2,700 | 3,344 | 2,684 |
| Glider (only) | 606 | 524 | 537 | 514 | 542 | 475 | 336 | 378 | 487 | 376 |
| Nonpilot—Total | 15,702 | 15,438 | 16,332 | 16,470 | 21,878 | 21,064 | 23,078 | 27,113 | 31,882 | 27,543 |
| Mechanic | 11,676 | 10,719 | 10,559 | 10,998 | 15,089 | 14,907 | 15,923 | 19,861 | 24,299 | 20,532 |
| Parachute Rigger | 214 | 149 | 157 | 149 | 194 | 142 | 167 | 227 | 228 | 232 |
| Ground Instructor | 1,524 | 1,283 | 1,359 | 1,386 | 1,825 | 1,716 | 2,133 | 2,664 | 3,527 | 3,508 |
| Dispatcher | 632 | 755 | 522 | 516 | 533 | 510 | 431 | 550 | 623 | 674 |
| Flight Navigator | 15 | 14 | 1 | 17 | 4 | 17 | 14 | 1 | 3 | 2 |
| Flight Engineer | 1,641 | 2,518 | 3,734 | 3,404 | 4,233 | 3,772 | 4,410 | 3,810 | 3,202 | 2,595 |
| Flight Instructor Certificates 2 | 4,614 | 4,075 | 4,298 | 4,628 | 6,327 | 4,898 | 5,365 | 7,071 | 8,164 | 7,151 |
| Instrument Ratings ³ | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | NAP |

² Special ratings shown on pilot certificates represented above; not included in total.

Table 7.18 ADDITIONAL AIRMEN RATINGS ISSUED BY CATEGORY CALENDAR YEARS 1983-1992

| Category of Certificate | 1883 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|----------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Pilot—Total | 30,898 | 30,469 | 28,420 | 32,628 | 39,990 | 37,921 | 46,990 | 45,730 | 51,435 | 44,760 |
| Student | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | NAP | N/AP | N/AP | NAP |
| Recreational | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP |
| Airplane. | Ì | - (| } | | ł | } | |) | | |
| Private | 12,721 | 11,784 | 11,686 | 12,672 | 16,302 | 15,800 | 22,240 | 19,299 | 23,630 | 19,416 |
| Commercial | 9,513 | 8,892 | 7,197 | 9,241 | 11,365 | 10,597 | 11,778 | 12,584 | 13,506 | 11,630 |
| Airline Transport | 8,187 | 9,335 | 9,192 | 10,372 | 11,956 | 11,209 | 12,698 | 13,540 | 13,979 | 13,391 |
| Helicopter (only) | 315 | 319 | 207 | 234 | 293 | 287 | 252 | 266 | 291 | 291 |
| Glider (only) | 162 | 139 | 138 | 109 | 74 | 28 | 22 | 41 | 29 | 32 |
| NonpilotTotal | 5,420 | 4,808 | 4,713 | 5,010 | 5,486 | 6,107 | 7,688 | 8,387 | 9,567 | 7,267 |
| Mechanic | 4,470 | 4,042 | 3,429 | 3,289 | 4,195 | 4,353 | 5,728 | 6,381 | 7,653 | 6,499 |
| Parachute Rigger | 13 | 12 | 9 | 11 | 11] | 8 | 21 | 12 | 33 | 22 |
| Ground Instructor | 371 | 293 | 343 | 323 | 366 | 334 | 399 | 434 | 493 | 518 |
| Dispatcher | 1 | 3 | 3 | 1 | 3 | 2 | 5 | 2 | 3 | 0 |
| Flight Navigator | 2 | 0 | ol | 0 | of | oi | oi | 1 [| ol | 0 |
| Flight Engineer | 563 | 458 | 929 | 1,386 | 911 | 1,410 | 1,535 | 1,557 | 1,385 | 228 |
| Flight instructor Certificates 1 | 7,698 | 6,828 | 5,921 | 5,421 | 6,378 | 5,234 | 7,532 | 8,517 | 9,470 | 8,161 |
| Instrument Ratings ² | 11,078 | 10,845 | 11,683 | 13,688 | 18,296 | 16,810 | 20,911 | 22,528 | 26,007 | 20,062 |

¹ Not included in total.

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot-aircraft category, class, and type instrument rating.

Helicopter pilot-instrument and type ratings.

Flight instructor-ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic-airframe and powerplant ratings.

Parachute rigger-senior or master rigger-senior or master rigger ratings.

Ground instructor-ratings for each subject in which the holder is qualified to give instruction.

³ estimate N/A Not Available. N/AP Not Applicable

² Special ratings shown on pilot certificates represented above; not included in total.

N/A Not Available.

N/AP Not Applicable

Table 7.19 AIRMEN CERTIFICATES APPROVED/DISAPPROVED BY CATEGORY AND CONDUCTOR 1992

| | | | Original I | 8802006 | | | | | Additiona | Ratings | | |
|-------------------------|----------|-------------|------------|----------|-------------|-------|----------|-------------|-----------|-----------|-------------|-------|
| Category of Certificate | | Examiner | | | Inspector | | Examiner | | | Inspector | | |
| | Approved | Disapproved | Total | Approved | Disapproved | Total | Approved | Disapproved | Total | Approved | Disapproved | Total |
| Pliot-Total | 50,912 | 9,710 | 60,622 | 670 | 263 | 933 | 39,224 | 4,877 | 44,101 | 1,321 | 175 | 1,496 |
| Recreational | 65 | 3 | 68 | 4 | o | 4 | N/AP | N/AP | N/AP | N/AP | N/AP | N/AP |
| Airplane | | | | | | | 1 | | | | | |
| Private | 31,862 | 6,965 | 38,847 | 193 | 41 | 234 | 17,295 | 3,712 | 21,007 | 138 | 33 | 171 |
| Commercial | 10,207 | 1,818 | 12,025 | 31 | 31 | 62 | 9,625 | 621 | 10,246 | 173 | 25 | 198 |
| Airline Transport | 6,811 | 904 | 7,715 | 367 | 191 | 558 | 12,078 | 544 | 12,622 | 998 | 117 | 1,115 |
| Helicopter (only) | 1,616 |) o | 1,616 | 61 | 0 | 61 | 226 | 0 | 226 | 12 | l oj | 12 |
| Gilder (only) | 351 | 0 | 351 | 14 | 0 | 14 | 0 | 0 | 0 | 0 | o | 0 |
| Nonpilot-Total | 20,253 | 644 | 20,897 | 426 | 55 | 481 | 5,791 | 63 | 5,854 | 67 | 9 | 76 |
| Mechanic | 17,373 | 489 | 17,862 | 27 | 23 | 50 | 5,639 | 55 | 5,694 | 15 | 7 | 22 |
| Parachute Rigger | 134 | 5 | 139 | 14 | 1 | 15 | 12 | 0 | 12 | 1 | 0 | 1 |
| Ground Instructor | 355 |] o | 355 | 15 | 1 | 16 | 59 | 0 | 59 | 3 | 0 | 3 |
| Dispatcher | 498 | 52 | 550 | 130 | 12 | 142 | 0 | 2 | 2 | 0 | 0 | 0 |
| Flight Navigator | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Flight Engineer | 1,892 | 98 | 1,990 | 240 | 18 | 258 | 81 | 6 | 87 | 48 | 2 | 50 |
| Flight Instructor Cer- | 1 | | | | | | | | | | | |
| tificates 1 | 5,488 | 2,209 | 7,697 | 1,429 | 524 | 1,953 | 7,854 | 469 | 8,323 | 288 | 61 | 349 |

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot-aircraft category, class, and type instrument rating.

Helicopter pilot-instrument and type ratings.

Flight instructor-ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic-airframe and powerplant ratings.

Parachute rigger-senior or master rigger-senior or master rigger ratings.

Ground instructor-ratings for each subject in which the holder is qualified to give instruction.

N/AP-Not applicable

TABLE 7.20 PERCENTAGE OF AIRMEN CERTIFICATE ISSUANCES APPROVED BY CATEGORY AND **CONDUCTOR** 1992

| Colorani of Codiffeets | Original I | ssuances | A⊍ditiona | Ratings |
|----------------------------------|------------|-----------|-----------|-----------|
| Category of Certificate | Examiner | Inspector | Examiner | Inspector |
| Pilot—Total | 84.0% | 71.8% | 88.9% | 88.3% |
| Recreational | 95.6% | 100.0% | N/AP | N/AF |
| Airplane | | | | |
| Private | 82.0% | 82.5% | 82.3% | 80.7% |
| Commercial | 84.9% | 50.0% | 93.9% | 87.4% |
| Airline Transport | 88.3% | 65.8% | 95.7% | 89.5% |
| Helicopter (only) | 100.0% | 100.0% | 100.0% | 100.0% |
| Glider (only) | 100.0% | 100.0% | 0.0% | 0.0% |
| Nonpilot—Total | 96.9% | 88.6% | 98.9% | 88.2% |
| Mechanic | 97.3% | 54.0% | 99.0% | 68.2% |
| Parachute Rigger | 96.4% | 93.3% | 100.0% | 100.0% |
| Ground Instructor | 100.0% | 93.8% | 100.0% | 100.0% |
| Dispatcher | 90.5% | 91.5% | 0.0% | 0.0% |
| Flight Navigator | 100.0% | 0.0% | 0.0% | 0.0% |
| Flight Engineer | 95.1% | 93.0% | 93.1% | 96.0% |
| Flight Instructor Certificates 1 | 71.3% | 73.2% | 94.4% | 82.5% |

Note: Additional ratings are entered on current airman certificates as follows:

Private, commercial, and airline transport pilot-aircraft category, class, and type instrument rating.

Helicopter pilot-instrument and type ratings.

Flight Instructor--ratings for each aircraft category in which the holder is qualified, and for instrument flying instructions.

Mechanic-airframe and powerplant ratings.

Parachute rigger—senior or master rigger—senior or master rigger ratings.

Ground instructor-ratings for each subject in which the holder is qualified to give instruction.

1 Special ratings shown on pilot certificates represented above; not included in total.

N/AP-Not applicable

¹ Special ratings shown on pilot certificates represented above; not included in total.

2929.FMT 04/29/93

TABLE 7.21 INSTRUMENT RATINGS ISSUED 1983-1992

| Class of Certificate | 1983 | 1984 | 1965 | 1966 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|--|--------|--------|--------|----------|--------|--------|--------|--------|--------|--------|
| Total—All Pliots | 11,078 | 10,845 | 11,699 | 13,687 | 18,296 | 16,810 | 20,911 | 22,526 | 25,992 | 20,062 |
| AMPLANE | | i i | | | | | | | | |
| Private —Total | 7,034 | 6,596 | 6,867 | 8,354 | 11,142 | 9,772 | 11,681 | 13,065 | 15,934 | 13,121 |
| Private Airplane (only) | 6,549 | 6,140 | 6,438 | 7,840 | 10,397 | 8,946 | 10,554 | 11,848 | 14,362 | 11,769 |
| Private Airplane, Private Glider | 92 | 91 | 75 | 95 | 135 | 92 | 93 | 111 | 128 | 100 |
| Private Airplane, Commercial Glider | 5 | 3 | 1 | 1 | 12 | 18 | 18 | 15 | 30 | 13 |
| Private Airplane, Private Helicopter | 20 | 27 | 26 | 29 | 35 | 40 | 38 | 36 | 59 | 72 |
| Private Airplane, Private Glider, Private Helicopter | 1 | o | 0 | 0 | 13 | 1 | 2 | 0 | | |
| Private Airplane, Commercial Helicopter | 149 | 139 | 172 | 178 | 234 | 272 | 293 | 309 | 359 | 333 |
| Private Airplane, Other | 218 | 190 | 175 | 211 | 328 | 404 | 682 | 745 | 994 | 834 |
| Commercial —Total | 2,956 | 3,275 | 3.665 | 4,183 | 5,995 | 6,101 | 8,091 | 8,338 | 8.911 | 6.003 |
| Commercial Airplane (only) | 2,376 | 2736 | 2,981 | 3,437 | 5,044 | 5,267 | 7,122 | 7,408 | 7,970 | 5.081 |
| Commercial Airplane, Private Glider | 23 | 28 | 29 | 31 | 48 | 49 | 54 | 54 | 58 | 33 |
| Commercial Airplane, Commercial Glider | 36 | 29 | 32 | 31 | 61 | 41 | 54 | 66 | 54 | 48 |
| Commercial Airplane, Private Helicopter | 5 | 3 | 11 | 5 | 14 | 11 | 12 | 12 | 22 | 17 |
| Commercial Airplane, Commercial Helicopter | 495 | 453 | 586 | 666 | 814 | 723 | 843 | 788 | 802 | 810 |
| Commercial Airplane, Private Glider, Commercial Helicopter | | 100 | 303 | 3 | 517 | 3 | 3 | | 1 | 2.0 |
| Commercial Airplane, Commercial Glider, | 1 | · i | -(| | i 'i | ŭ, | | - 1 | ' ' | • |
| Commercial Helicopter | 14 | 25 | 11 | ۰ | 7 | ء | | [م | 3 | |
| Commercial Airplane, Other | 3 | 20 | 3 | , | [] | ¥1 | ا و | 3 | 1 | 3 |
| ROTORCRAFT | | ١ | ٠ ١ | | i 'I | ' | - 1 | -1 | '1 | • |
| Commercial—Total | 1.086 | 980 | 1,157 | 1,150 | 1,158 | 937 | 1,139 | 1,125 | 1.147 | 938 |
| Commercial Helicopter | 1.085 | 977 | 1,156 | 1.145 | 1,135 | 909 | 1,113 | 1.097 | 1.103 | 898 |
| Commercial Helicopter, Private Glider | 1,000 | 3// | 1,130 | 1,143 | 1,133 | 303 | 1,113 | 1.097 | 1,103 | 090 |
| Commercial Helicopter, Commercial Glider | 1 | ا ن | اہٰ | <u>ر</u> | اذا | , | ام | , | · • | |
| Commercial Helicopter, Airline Transport Helicopter | , | '.[] | | ١ | 20 | 22 | 17 | 20 | 28 | 19 |
| | | | 2 | 4 | 201 | 6 | 9 | 20 | 12 | 21 |
| Commercial Helicopter, Other | | ! | ٥ | 4 | 2 | | 9 | / | 12 | 21 |

Table 7.22 STUDENT CERTIFICATES ISSUED, BY MONTH 1983-1992

| YEAR | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| TOTAL | 93,239 | 90,167 | 86,060 | 88,706 | 85,661 | 82,110 | 87,427 | 88,586 | 82,205 | 78,377 |
| January | 6,511 | 7,485 | 6,414 | 6,641 | 6,098 | 5,410 | 7,789 | 6,699 | 5,704 | 6,104 |
| February | 6,146 | 6,338 | 5,233 | 5,590 | 6,543 | 6,157 | 7,156 | 6,266 | 5,541 | 5,773 |
| March | 7,724 | 7,086 | 6,809 | 6,472 | 7,125 | 7,133 | 6,833 | 7,372 | 5,950 | 6,773 |
| April | 6,737 | 6,931 | 7,492 | 7,488 | 7,139 | 6,606 | 6,059 | 7,044 | 6,513 | 6,703 |
| May | 7,650 | 7,784 | 7,749 | 7,415 | 6,164 | 7,014 | 6,870 | 7,604 | 6,622 | 6,299 |
| June | 9,344 | 8,533 | 8,279 | 8,211 | 8,491 | 8,539 | 8,675 | 8,284 | 7,932 | 7,819 |
| July | 9,253 | 9,202 | 9,249 | 9,648 | 8,973 | 7,796 | 8,305 | 9,037 | 8,442 | 8,074 |
| August | 10,426 | 9,559 | 8,892 | 8,886 | 8,389 | 8,981 | 8,976 | 9,155 | 8,580 | 7,210 |
| September | 9,971 | 7,781 | 7,973 | 8,961 | 8,109 | 7,624 | 8,080 | 7,509 | 7,630 | 7,251 |
| October | 8,040 | 8,129 | 7,892 | 8,133 | 7,585 | 7,133 | 7,616 | 8,103 | 7,956 | 6,760 |
| November | 6,500 | 6,291 | 5,579 | 5,809 | 5,912 | 6,086 | 6,203 | 6,551 | 7,661 | 5,240 |
| December | 4,937 | 5,048 | 4,499 | 5,452 | 5,133 | 3,631 | 4,865 | 4,962 | 3,674 | 4,371 |

VIII. GENERAL AVIATION AIRCRAFT

General aviation aircraft activity information was obtained using the General Aviation Activity and Avionics Survey, which is mailed to the owners of a sample of registered general aviation aircraft. The sample is a scientifically designed random sample which represents all general aviation aircraft registered in the United States.

The survey collects data relative to flight hours, airframe hours and the avionics equipment on board the aircraft. In addition, the survey collects information about the number of hours flown under instrument flight rules, fuel consumption rates, and the state where the aircraft is based.

The estimates for 1991 were adjusted to reflect the effects on nonrespondents. A survey of nonrespondents to the 1990 survey found that the proportion of nonrespondents that were active was less than that of the respondents. It also found that that if the aircraft was active it flew about the same number of annual hours as the respondent's aircraft.

Because the estimates are derived from a sample—not the total population of aircraft—a certain amount of sampling error is introduced. The user must consider this error along with the estimate itself when making an inference or drawing any conclusions about the aircraft population. Although the exact value of the sample error is unknown, a quantity known as the standard error is used to approximate it. Using the standard error, one can develop an interval within which the true population estimate will lie with a known probability. The probability that the true value lies within the interval depends on the width of the interval, i.e., the estimate plus or minus 1, 2, or 3 times the standard error. The table below shows selected interval widths and their corresponding confidence.

| Width of Interval | Approximate Confidence That Interval Includes True Value |
|-------------------|--|
| 1 standard error | 68% |
| 2 standard errors | 95% |
| 3 standard errors | 99% |

For example, if the estimate for the total number of active piston powered rotorcraft were 2,658 and the standard error was 176, then the 95% confidence interval would be 2,658 + 2(176) or (2306, 3010). One would say that there is a 95% chance that the number of active piston powered rotorcraft lies between 2306 and 3010.

In some tables, the standard error is expressed as a percent. To calculate the standard error, multiply the estimated by the percentage. To derive the 95% confidence interval, proceed as before. For example, if total hours flown were 35,792 thousand hours and the percentage standard error was 3.0%, the 95% confidence interval would be:

$$35,792 + (2 \times 3\% \times 35,792) = 35,792 \pm 2148 = (33,644: 37,940)$$

The standard error, percent standard error, or a code for the standard error is shown for each estimate made from the sample in this chapter.

More detailed estimates and more detailed discussion of the survey and its methodology are available in General Aviation Activity and Avianics Survey.

TABLE 8.1 ACTIVE GENERAL AVIATION AIRCRAFT BY AIRCRAFT TYPE AND PRIMARY USE: 1992

(Percent standard error is shown in parenthesis)

| Aircraft Type | Total | Corporate | Business | Personal | Instruc- tional | Aerial Application | Aerial Observa- tion | Other Work | Commuter Air Carrier | Air Taxi | Other |
|--------------------|---------|-----------|----------|----------|--------------------|-----------------------|----------------------------|---------------|----------------------------|-------------|---------|
| Fixed-Wing—Total | 170,844 | 8,670 | 28,519 | 101,978 | 14,911 | 4,269 | 4,145 | 1,041 | 795 | 3,761 | 2,755 |
| | (0.7%) | (3.9%) | (2.8%) | (1.0%) | (4.4%) | (3.2%) | (8.9%) | (16.4%) | (16.9%) | (8.1%) | (9.2%) |
| Pleton—Total | 162,117 | 3,293 | 27,512 | 101,680 | 14,787 | 3,967 | 4,078 | 986 | 524 | 2,904 | 2,365 |
| İ | (0.7%) | (9.2%) | (3.0%) | (1.0%) | (4.5%) | (3.4%) | (9.1%) | (17.2%) | (23.8%) | (10.0%) | (10.4%) |
| One Engine | 143,580 | 1,080 | 21,513 | 95,799 | 13,638 | 3,764 | 3,819 | 826 | 194 | 1,085 | 1,861 |
| | (0.8%) | (17.9%) | (3.6%) | (1.0%) | (4.7%) | (3.3%) | (9.5%) | (20.0%) | (36.0%) | (18.1%) | (12.2%) |
| Two Engine | 18,451 | 2,213 | 5,994 | 5,864 | 1,142 | 205 | 257 | 160 | 330 | 1,819 | 467 |
| | (1.7%) | (10.6%) | (5.4%) | (5.4%) | (13.9%) | (24.8%) | (28.0%) | (22.7%) | (21.3%) | (11.7%) | (20.4%) |
| Other Piston | 86 | 0 | 4 | 17 | 7 | 18 | 2 | 0 | 0 | 0 | 37 |
| j | (17.7%) | (0.0%) | (0.0%) | (25.1%) | (32.9%) | (18.1%) | (87.9%) | (0.0%) | (0.0%) | (0.0%) | (13.2%) |
| Turboprop-Total | 4,704 | 2,470 | 607 | 215 | 105 | 269 | 54 | 55 | 228 | 525 | 176 |
| | (3.1%) | (4.8%) | (14.8%) | (23.7%) | (38.0%) | (5.2%) | (45.7%) | (31.1%) | (17.7%) | (14.4%) | (20.8%) |
| Two Engine | 4,094 | 2,448 | 570 | 157 | 73 | 0 | 22 | 53 | 209 | 436 | 126 |
| | (3.5%) | (4.8%) | (15.2%) | (30.6%) | (52.4%) | (0.0%) | (100.3%) | (31.6%) | (18.2%) | (16.7%) | (26.2%) |
| Other Turboprop | 610 | 22 | 37 | 58 | 32 | 269 | 32 | 1 | 19 | 90 | 51 |
| | (3.0%) | (67.9%) | (47.0%) | (28.9%) | (34.7%) | (5.2%) | (34.6%) | (173.7%) | (69.8%) | (24.0%) | (32.2%) |
| Turbojet—Total | 4,022 | 2,907 | 400 | 83 | 19 | 12 | 13 | 0 | 43 | 332 | 213 |
| 1 | (2.4%) | (3.4%) | (19.4%) | (38.0%) | (43.7%) | (123.9%) | (61.4%) | (0.0%) | (69.1%) | (18.4%) | (21.0%) |
| Two Engine | 3,790 | 2,781 | 396 | 54 | 19 | 12 | 3 | 0 | 43 | 332 | 151 |
| , | (2.3%) | (3.5%) | (19.6%) | (55.7%) | (43.7%) | (123.9%) | (129.0%) | (0.0%) | (69.1%) | (18.4%) | (28.6%) |
| Other Turbojet | 232 | 126 | 4 | 29 | Ò | Ò | 10 | Ò | Ó | Ó | 63 |
| · | (15.3%) | (7.5%) | (98.4%) | (33.6%) | (0.0%) | (0.0%) | (69.9%) | (0.0%) | (0.0%) | (0.0%) | (19.3%) |
| Rotorcraft-Total | 5,753 | 532 | 347 | 819 | 535 | 786 | 1,220 | 259 | 17 | 863 | 376 |
| | (3.8%) | (20.3%) | (24.8%) | (11.3%) | (18.0%) | (15.5%) | (12.3%) | (31.7%) | (149.2%) | (14.8%) | (22.2%) |
| Piston | 2,211 | 16 | 150 | 677 | 444 | 305 | 440 | 66 | Ö | 44 | 69 |
| | (7.7%) | (128.0%) | (38.3%) | (11.2%) | (18.0%) | (18.6%) | (15.8%) | (48.2%) | (0.0%) | (70.4%) | (16.5%) |
| Turbine | 3,542 | 515 | 198 | 142 | 92 | 481 | 780 | 193 | 17 | 819 | 306 |
| | (3.9%) | (20.5%) | (32.5%) | (37.0%) | (58.4%) | (22.5%) | (17.1%) | (39.3%) | (149.2%) | (15.1%) | (27.0%) |
| Other—Total | 7,837 | 199 | 76 | 5,952 | 543 | 13 | 228 | 386 | 2 | 24 | 412 |
| | (1.9%) | (29.6%) | (42.5%) | (2.4%) | (13.8%) | (117.2%) | (29.3%) | (20.1%) | (319.4%) | (42.0%) | (19.8%) |
| Total All Aircraft | 184,434 | 9,400 | 28,942 | 108,749 | 15,990 | 5,067 | 5,593 | 1,689 | 813 | 4,648 | 3,542 |
| | (0.7%) | (3.9%) | (2.9%) | (1.0%) | (4.2%) | (36.0%) | (7.2%) | (12.1%) | (16.8%) | (7.1%) | (7.9%) |

NOTE: Columns may not add to totals due to rounding and estimation procedures.

TABLE 8.2 ACTIVE GENERAL AVIATION AIRCRAFT BY AIRCRAFT TYPE 1983–1992

(Percent Standard error is shown in parenthesis)

| Aircraft Type | 1992 | 1991 | 19901 | 19891 | 1988 1 | 19871 | 19861 | 1985 1 | 1984 | 1983 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Fixed-WingTotal | 170,844 | 184,620 | 184.5 | 190.8 | 183.8 | 190.5 | 192.3 | 184.7 | 207,571 | 200,831 |
| | (0.7%) | (0.7%) | (0.5%) | (0.5%) | (0.6%) | (0.5%) | (0.5%) | (0.6%) | (0.5%) | (0.7%) |
| Piston-Total | 162,117 | 175,347 | 175.2 | 180.8 | 175.0 | 181.5 | 182.5 | 175.6 | 197,442 | 191,480 |
| } | (7.0%) | (0.7%) | (0.6%) | (0.5%) | (0.6%) | (0.5%) | (0.6%) | (0.6%) | (0.5%) | (0.7%) |
| One Engine | 143,580 | 154,102 | 154.0 | 158.9 | 153.7 | 159.7 | 160.3 | 153.4 | 171,922 | 166,247 |
| l | (0.8%) | (0.8%) | (0.6%) | (0.6%) | (0.6%) | (0.6%) | (0.6%) | (0.7%) | (0.5%) | (0.8%) |
| Two Engine | 18,451 | 21,119 | 21.1 | 21.8 | 21.2 | 21.7 | 22.1 | 22.1 | 25,258 | 24,910 |
| 1 | (1.7%) | (1.7%) | (1.3%) | (1.2%) | (1.4%) | (1.3%) | (1.6%) | (1.5%) | (1.2%) | (1.4%) |
| Other Piston | 86 | 127 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.1 | 262 | 143 |
| ł | (17.7%) | (22.2%) | (30.0%) | (33.8%) | (21.7%) | (25.0%) | (24.3%) | (20.9%) | (13.4%) | (9.8%) |
| Turboprop—iotal | 4,704 | 4,920 | 5.3 | 5.9 | 4.9 | 4.9 | 5.6 | 5.0 | 5,809 | 5,453 |
| | (3.1%) | (2.7%) | (1.8%) | (1.5%) | (1.7%) | (1.9%) | (1.9%) | (2.1%) | (1.0%) | (1.7%) |
| Two Engine | 4,094 | 4,398 | 4.9 | 5.7 | 4.7 | 4.7 | 5.4 | 4.9 | 5,633 | 5,311 |
| 1 | (3.5%) | (3.0%) | (1.8%) | (1.5%) | (1.8%) | (1.9%) | (1.9%) | (2.1%) | (1.0%) | (1.6%) |
| Other Turboprop | 610 | 522 | 0.4 | 0.2 | 0.2 | 0.2 | 0.2 | 0.1 | 176 | 142 |
| | (3.0%) | (2.4%) | (7.0%) | (14.2%) | (7.1%) | (8.9%) | (16.2%) | (7.8%) | (8.5%) | (26.8%) |
| Turbojet—Total | 4,022 | 4,353 | 4.1 | 4.1 | 3.9 | 4.0 | 4.2 | 4.1 | 4,320 | 3,898 |
| į | (2.4%) | (2.0%) | (2.0%) | (1.5%) | (2.0%) | (1.5%) | (2.2%) | (1.7%) | (1.6%) | (3.3%) |
| Two Engine | 3,790 | 4,066 | 3.7 | 3.7 | 3.6 | 3.6 | 3.8 | 3.6 | 3,780 | 3,447 |
| 1 | (2.3%) | (1.9%) | (2.0%) | (1.4%) | (2.1%) | (1.6%) | (1.6%) | (1.7%) | (1.3%) | (2.7%) |
| Other Turbojet | 232 | 286 | 0.4 | 0.4 | 0.3 | 0.4 | 0.4 | 0.5 | 540 | 451 |
| 1 | (15.3%) | (14.4%) | (8.2%) | (8.2%) | (5.5%) | (5.0%) | (16.2%) | (7.2%) | (26.9%) | (20.2%) |
| RotorcraftTotal | 5,753 | 6,292 | 6.9 | 7.0 | 6.0 | 5.9 | 6.5 | 6.0 | 7,096 | 6,540 |
| 1 | (3.8%) | (3.5%) | (3.0%) | (0.5%) | (3.6%) | (3.2%) | (3.1%) | (4.0%) | (3.1%) | (3.7%) |
| Piston | 2,211 | 2,470 | 3.2 | 3.0 | 2.4 | 2.6 | 2.7 | 2.7 | 2,936 | 2,541 |
| į. | (7.7%) | (7.6%) | (5.3%) | (1.2%) | (7.9%) | (5.0%) | (6.0%) | (7.0%) | (6.3%) | (7.5%) |
| Turbine | 3,542 | 3,822 | 3.7 | 4.0 | 3.6 | 3.3 | 3.8 | 3.3 | 4,160 | 3,998 |
| 1 | (3.9%) | (2.9%) | (3.1%) | (0.4%) | (2.7%) | (4.2%) | (3.1%) | (4.5%) | (2.8%) | (3.8%) |
| OtherTotal | 7,837 | 7,563 | 6.6 | 7.2 | 6.4 | 6.3 | 6.5 | 5.8 | 6,275 | 5,923 |
| 1 | (1.9%) | (2.9%) | (3.0%) | (2.4%) | (4.1%) | (3.4%) | (3.0%) | (3.3%) | (2.7%) | (3.5%) |
| Total All Aircraft | 184,434 | 198,475 | 198.0 | 205.0 | 196.2 | 202.7 | 205.3 | 196.5 | 220,943 | 213,293 |
| Ī | (0.7%) | (0.7%) | (0.5%) | (0.5%) | (0.5%) | (0.5%) | (0.5%) | (0.6%) | (0.5%) | (0.6%) |

¹ Revised to correct for nonresponse bias.

NOTE: Columns may not add to totals due to rounding and estimation procedures.

TABLE 8.3 ACTIVE GENERAL AVIATION AIRCRAFT BY PRIMARY USE 1983–1992

(Aircraft in Thousands)

| Use Category | 1992 | 1991 | 19901 | 19891 | 19881 | 19871 | 19861 | 19851 | 1984 | 1983 |
|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Corporate | 9.4 | 10.0 | 10.1 | 11.5 | 10.2 | 11.1 | 11.3 | 12.7 | 16.7 | 17.1 |
| Business | 28.9 | 31.6 | 33.1 | 35.0 | 32.6 | 37.3 | 40.8 | 42.5 | 47.1 | |
| Personal | 108.7 | 115.1 | 112.6 | 116.4 | 114.4 | 115.3 | 112.2 | 96.2 | 105.3 | 45.0 |
| Instructional | 16.0 | 17.9 | 18.6 | 16.6 | 15.6 | 14.7 | 14.8 | 13.4 | | 101.5 |
| Aerial Application | 5.1 | 7.0 | 6.2 | 6.6 | 6.6 | 6.1 | 6.6 | - 1 | 15.3 | 15.4 |
| Aerial Observation | 5.6 | 5.1 | 4.9 | 5.4 | 4.4 | 4.5 | | 6.8 | 7.3 | 7.1 |
| Other Work | 1.7 | 1.7 | 1.4 | 2.0 | 1.7 | | 4.4 | 4.2 | 5.2 | 4.0 |
| Commuter Air Taxi | 0.8 | 0.7 | 1.2 | 1.3 | 0.9 | 1.5 | 1.2 | 1.5 | 1.3 | 2.4 |
| Air Taxi | 4.7 | 5.5 | 5.8 | 6.6 | | 0.9 | 1.6 | 0.8 | 1.2 | 1.5 |
| Other | 3.5 | 3.9 | 4.1 | | 6.0 | 5.8 | 7.1 | 6.0 | 7.3 | 6.9 |
| Rental | N/A | N/A | | 3.6 | 3.8 | 5.5 | 5.3 | 5.0 | 4.8 | 7.7 |
| ital | 1 | | N/A | N/A | NA | N/A | N/A | 7.4 | 9.4 | 4.8 |
| | 184.4 | 196.5 | 198.0 | 205.0 | 196,2 | 202.7 | 205.3 | 196.5 | 220.9 | 213.3 |

¹ Revised to reflect effects of nonresponse.

N/A- Rental Hours no longer collected as separate use category.

NOTE: Columns may not add to totals due to rounding and estimation procedures.

TABLE 8.4 ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN, BY AIRCRAFT TYPE AND PRIMARY USE: 1992

(Percent standard error is shown in parenthesis)

| Aircraft Type | Total | Corporate | Business | Personal | Instruc- tional | Aerial Application | Aerial Observa- tion | Other Work | Commuter Air Carrier | Air Taxi | Other |
|--------------------|------------|-----------|-----------|-----------|--------------------|-----------------------|----------------------------|---------------|----------------------------|-------------|---------|
| Fixed-Wing—Total | 23,800,912 | 2,066,913 | 3,462,537 | 8,297,385 | 5,100,909 | 1,009,874 | 1,101,549 | 212,510 | 676,420 | 1,315,660 | 265,641 |
| | (1.7%) | (4.7%) | (3.7%) | (1.9%) | (5.8%) | (5.5%) | (12.2%) | (18.5%) | (18.3%) | (9.8%) | (12.9%) |
| Platon-Total | 21,250,908 | 591,999 | 3,276,806 | 8,266,048 | 5,079,278 | 869,206 | 1,084,651 | 194,186 | 406,590 | 1,040,919 | 210,997 |
| | (1.9%) | (11.1%) | (3.8%) | (1.9%) | (5.8%) | (6.1%) | (12.3%) | (19.9%) | (27.5%) | (11.7%) | (15.1%) |
| One Engine | 18,074,428 | 140,520 | 2,518,141 | 7,706,038 | 4,731,819 | 838,181 | 1,014,904 | 175,145 | 113,563 | 464,447 | 180,836 |
| | (2.1%) | (22.1%) | (4.5%) | (1.9%) | (6.1%) | (6.3%) | (12.9%) | (22.8%) | (53.6%) | (21.0%) | (17.4%) |
| Two Engine | 3,172,046 | 451,478 | 757,753 | 559,872 | 347,459 | 29,994 | 69,746 | 19,040 | 293,027 | 576,472 | 28,966 |
| | (3.9%) | (13.1%) | (6.8%) | (6.7%) | (16.6%) | (27.4%) | (28.7%) | (22.9%) | (32.6%) | (12.6%) | (22.2%) |
| Other Piston | 4,432 | 0 | 912 | 139 | 0 | 1,031 | 0 | 0 | 0 | 0 | 1,195 |
| | (22.6%) | (0.0%) | (84.5%) | (25.1%) | (0.0%) | (19.8%) | (0.0%) | (0.0%) | (0.0%) | (0.0%) | (30.5%) |
| Turboprop—Total | 1,477,709 | 604,637 | 113,597 | 23,123 | 21,383 | 140,669 | 16,458 | 18,325 | 260,319 | 199,954 | 32,217 |
| | (5.7%) | (6.8%) | (16.8%) | (25.7%) | (59.3%) | (13.0%) | (55.4%) | (29.8%) | (18.04) | (18.1%) | (24.5%) |
| Two Engine | 1,237,576 | 600,186 | 108,181 | 19,343 | 16,251 | 0 | 3,951 | 17,823 | 10,10 ك | 149,850 | 29,120 |
| | (6.5%) | (6.8%) | (17.7%) | (32.9%) | (148.8%) | (0.0%) | (106.4%) | (30.1%) | (19.4%) | (20.9%) | (42.4%) |
| Other Turboprop | 240,133 | 4,451 | 5,416 | 3,780 | 5,132 | 140,669 | 12,506 | 502 | 10,214 | 50,104 | 3,097 |
| | (10.2%) | (66.1%) | (48.2%) | (30.6%) | (62.2%) | (13.0%) | (38.1%) | (173.7%) | (70.9%) | (29.2%) | (52.9%) |
| Turbojet-Total | 1,072,293 | 870,277 | 72,135 | 8,214 | 248 | 0 | 441 | 0 | 9,511 | 74,787 | 22,427 |
| | (4.2%) | (4.7%) | (22.7%) | (48.4%) | (48.0%) | (0.0%) | (272.0%) | (0.0%) | (610.5%) | (23.0%) | (22.1%) |
| Two Engine | 1,030,381 | 838,314 | 71,025 | 7,259 | 248 | 0 | 441 | 0 | 9,511 | 74,787 | 21,325 |
| | (4.3%) | (4.9%) | (22.9%) | (63.3%) | (48.0%) | (0.0%) | (129.4%) | (0.0%) | (61.5%) | (23.0%) | (37.5%) |
| Other Turbojet | 41,912 | 31,963 | 1,109 | 955 | 0 | 0 | 0 | 0 | 0 | 0 | 1,102 |
| | (16.4%) | (11.1%) | (119.7%) | (37.3%) | (0.0%) | (0.0%) | (0.0%) | (0.0%) | (0.0%) | (0.0%) | (27.4%) |
| Rotorcraft—Total | 2,282,703 | 158,704 | 71,193 | 44,862 | 165,213 | 285,772 | 610,301 | 108,065 | 16,135 | 692,261 | 76,856 |
| | (6.6%) | (25.5%) | (24.1%) | (12.1%) | (20.5%) | (15.6%) | (16.0%) | (37.7%) | (148.2%) | (18.2%) | (17.8%) |
| Piston | 416,376 | 1,013 | 13,980 | 26,404 | 145,450 | 73,102 | 92,982 | 6,133 | 0 | 27,426 | 4,690 |
| | (12.4%) | (175.7%) | (37.1%) | (12.6%) | (21.1%) | (21.7%) | (21.9%) | (41.9%) | (0.0%) | (69.7%) | (17.7%) |
| Turbine | 1,866,327 | 157,690 | 57,213 | 18,458 | 19,764 | 212,671 | 517,319 | 101,932 | 16,135 | 664,835 | 72,167 |
| | (7.8%) | (25.7%) | (33.4%) | (42.3%) | (60.1%) | (21.8%) | (20.6%) | (47.4%) | (148.2%) | (18.8%) | (20.4%) |
| OtherTotal | 409,872 | 36,518 | 2,939 | 249,528 | 74,172 | 0 | 17,830 | 22,785 | 34 | 881 | 15,748 |
| | (6.0%) | (57.0%) | (51.0%) | (5.6%) | (15.4%) | (0.0%) | (24.1%) | (24.4%) | (319.4%) | (56.9%) | (26.3%) |
| Total All Aircraft | 26,493,480 | 2,262,134 | 3,536,669 | 8,591,779 | 5,340,294 | 1,295,646 | 1,729,679 | 343,360 | 692,589 | 2,008,801 | 358,245 |
| | (1.8%) | (4.8%) | (3.6%) | (1.8%) | (5.5%) | (5.2%) | (9.5%) | (14.2%) | (18.1%) | (8.7%) | (10.4%) |

TABLE 8.5 ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN BY AIRCRAFT TYPE 1983–1992

(Hours in Thousands)

(Percent Standard error is shown in parenthesis)

| Aircraft Type | 1992 | 1991 | 19901 | 19891 | 19881 | 19871 | 1986 1 | 1985 1 | 1984 | 1983 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| ixed-Wing —Total | 23,801 | 26,851 | 29,546 | 29,327 | 28,040 | 28,391 | 28,994 | 29,085 | 33,265 | 32,558 |
| | (1.7%) | (1.9%) | (1.8%) | (1.7%) | (1.8%) | (1.7%) | (1.7%) | (1.7%) | (2.1%) | (2.1%) |
| Piston-Total | 21,251 | 24,102 | 25,832 | 24,907 | 24,291 | 24,969 | 24,805 | 25,666 | 29,194 | 28,911 |
| | (1.9%) | (2.1%) | (2.0%) | (1.9%) | (2.0%) | (1.9%) | (1.9%) | (1.9%) | (1.8%) | (2.3%) |
| One Engine | 18,074 | 20,540 | 21,883 | 20,600 | 20,326 | 20,446 | 20,260 | 21,102 | 23,506 | 23,149 |
| · | (2.1%) | (2.3%) | (2.2%) | (2.2%) | (2.2%) | (2.0%) | (2.1%) | (2.1%) | (2.1%) | (2.6%) |
| Two Engine | 3,172 | 3,555 | 3,897 | 4,292 | 3,943 | 4,509 | 4,535 | 4,539 | 5,585 | 5,730 |
| · | (3.9%) | (4.1%) | (3.8%) | (3.3%) | (4.1%) | (5.2%) | (4.6%) | (4.1%) | (3.6%) | (5.3%) |
| Other Piston | 4 | 7 | 53 | 16 | 20 | 14 | 10 | 24 | 102 | 32 |
| | (22.6%) | (33.5%) | (48.7%) | (67.3%) | (44.5%) | (33.3%) | (45.5%) | (34.6%) | (29.4%) | (31.2%) |
| Turboprop—Total | 1,478 | 1,513 | 2,319 | 2,892 | 2,195 | 2,010 | 2,661 | 1,921 | 2,506 | 2,173 |
| , , | (5.7%) | (5.3%) | (6.4%) | (5.0%) | (5.0%) | (5.0%) | (5.1%) | (4.6%) | (4.7%) | (7.1%) |
| Two Engine | 1,238 | 1,359 | 2,162 | 2,776 | 2,117 | 1,841 | 2,583 | 1,862 | 2,452 | 2,090 |
| - | (6.5%) | (5.8%) | (6.8%) | (5.2%) | (5.1%) | (5.0%) | (5.3%) | (4.8%) | (4.7%) | (7.2%) |
| Other Turboprop | 240 | 154 | 157 | 116 | 78 | 169 | 78 | 59 | 54 | 83 |
| | (10.2%) | (12.8%) | (10.9%) | (16.6%) | (14.9%) | (24.6%) | (14.1%) | (10.9%) | (25.9%) | (37.3%) |
| Turbojet-Total | 1,072 | 1,236 | 1,396 | 1,527 | 1,554 | 1,411 | 1,527 | 1,496 | 1,566 | 1,473 |
| - | (4.2%) | (4.5%) | (4.1%) | (3.7%) | (4.4%) | (3.9%) | (4.7%) | (4.4%) | (4.7%) | (6.6%) |
| Two Engine | 1,030 | 1,183 | 1,279 | 1,424 | 1,434 | 1,312 | 1,446 | 1,349 | 1,328 | 1,350 |
| • | (4.3%) | (4.7%) | (4.3%) | (3.9%) | (4.7%) | (4.2%) | (4.9%) | (4.8%) | (5.0%) | (6.8%) |
| Other Turbojet | 42 | 54 | 117 | 103 | 120 | 99 | 90 | 149 | 237 | 124 |
| - | (16.4%) | (15.1%) | (12.2%) | (12.2%) | (10.9%) | (10.3%) | (19.4%) | (10.6%) | (13.9%) | (25.0%) |
| Rotorcraft-Total | 2,283 | 2,757 | 2,209 | 2,610 | 2,507 | 2,108 | 2,424 | 1,990 | 2,495 | 2,271 |
| | (6.6%) | (7.5%) | (5.9%) | (0.9%) | (6.5%) | (7.4%) | (6.7%) | (7.7%) | (5.5%) | (7.0%) |
| Piston | 416 | 585 | 716 | 692 | 533 | 602 | 742 | 521 | 592 | 572 |
| | (12.4%) | (12.0%) | (10.2%) | (2.1%) | (11.6%) | (9.2%) | (12.8%) | (15.1%) | (11.3%) | (8.6%) |
| Turbine | 1,866 | 2,172 | 1,493 | 1,918 | 1,974 | 1,506 | 1,682 | 1,468 | 1,903 | 1,700 |
| | (7.6%) | (9.0%) | (7.2%) | (0.9%) | (7.6%) | (9.6%) | (7.7%) | (8.9%) | (6.4%) | (8.9%) |
| Other—Total | 410 | 459 | 341 | 396 | 568 | 384 | 364 | 382 | 358 | 420 |
| } | (6.0%) | (8.9%) | (7.0%) | (7.4%) | (24.2%) | (6.0%) | (7.6%) | (8.2%) | (6.7%) | (11.7%) |
| Total All Aircraft | 26,493 | 30,067 | 32,096 | 32,332 | 31,114 | 30,883 | 31,782 | 31,456 | 36,119 | 35,249 |
| | (1.6%) | (1.8%) | (1.7%) | (1.6%) | (1.7%) | (1.7%) | (1.6%) | (1.6%) | (1.6%) | (2.0%) |

¹ Revised to correct for nonresponse bias

NOTE: Columns may not add to totals due to rounding and estimation procedures.

TABLE 8.6 ACTIVE GENERAL AVIATION AIRCRAFT TOTAL HOURS FLOWN BY PRIMARY USE 1983–1992

(Hours in Thousands)

| Use Category | 1992 | 1991 | 19901 | 19891 | 19881 | 1987 1 | 19861 | 1985 1 | 1984 | 1983 |
|--------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Corporate | 2,262 | 2,617 | 2,913 | 3,453 | 3,472 | 3,143 | 3,491 | 3,857 | 4,773 | 5,241 |
| Business | 3,537 | 4,154 | 4,417 | 4,330 | 4,594 | 5,276 | 5,444 | 6,034 | 6,635 | 5,956 |
| Personal | 8,592 | 9,685 | 9,276 | 9,537 | 10,015 | 9,961 | 9,324 | 7,750 | 8,417 | 8,477 |
| Instructional | 5,340 | 6,141 | 7,244 | 5,993 | 4,917 | 4,529 | 4,319 | 3,938 | 4,553 | 4,864 |
| Aerial Application | 1,296 | 1,911 | 1,872 | 1,868 | 1,842 | 1,538 | 1,833 | 2,002 | 2,008 | 1,762 |
| Aerial Observation | 1,730 | 1,797 | 1,745 | 1,719 | 1,308 | 1,304 | 1,496 | 1,214 | 1,314 | 1,137 |
| Other Work | 343 | 471 | 572 | 517 | 525 | 350 | 298 | 317 | 312 | 642 |
| Commuter Air Taxi | 693 | 570 | 1,333 | 1,392 | 1,036 | 1,255 | 2,018 | 623 | 1,504 | 1,602 |
| Air Taxi | 2,009 | 2,241 | 2,249 | 3,020 | 2,632 | 2,657 | 2,690 | 2,570 | 3,019 | 2,528 |
| Other | 358 | 473 | 475 | 507 | 774 | 871 | 868 | 767 | 729 | 2,384 |
| Rental | NA | NA | NA | NA | N/A | N/A | NA | 2,385 | 2,854 | 553 |
| otal | 26,493 | 30,067 | 32,096 | 32,332 | 31,114 | 30,883 | 31,782 | 31,456 | 36,119 | 35,146 |

¹ Revised to reflect effects of nonresponse.

N/A Rental Hours no longer collected as separate use category.

NOTE: Columns may not add to totals due to rounding and estimation procedures

TABLE 8.7 ACTIVE GENERAL AVIATION AIRCRAFT AVERAGE HOURS FLOWN BY AIRCRAFT TYPE 1983-1992

(Percent Standard error is shown in parenthesis)

| Aircraft Type | 1992 | 1991 | 19901 | 1989 1 | 1988 1 | 19871 | 1986 1 | 1985 1 | 1984 | 1983 |
|--------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| bred-Wing —Total | 136.7 | 143.8 | 160.1 | 153.7 | 152.6 | 149.0 | 150.8 | 157.5 | 156.0 | 160.9 |
| - | (1.8%) | (1.9%) | (1.8%) | (1.7%) | (1.8%) | (1.7%) | (1.7%) | (1.7%) | (1.7%) | (2.1%) |
| Piston—Total | 130.4 | 137.5 | 147.4 | 137.8 | 138.8 | 137.6 | 135.9 | 146.2 | 147.1 | 150.6 |
| j | (2.0%) | (2.0%) | (1.9%) | (1.9%) | (1.9%) | (1.8%) | (1.8%) | (1.8%) | (1.8%) | (2.3%) |
| One Engine | 126.1 | 134.2 | 142.1 | 129.6 | 132.2 | 128.0 | 126.4 | 137.6 | 137.0 | 139.0 |
| | (2.2%) | (2.2%) | (2.2%) | (2.2%) | (2.2%) | (2.0%) | (2.0%) | (2.0%) | (2.0%) | (2.5%) |
| Two Engine j | 170.3 | 167.0 | 184.7 | 196.9 | 186.0 | 207.8 | 205.2 | 205.4 | 218.0 | 230.0 |
| i | (3.9%) | (3.8%) | (3.8%) | (3.1%) | (3.5%) | (5.1%) | (4.4%) | (3.8%) | (3.2%) | (5.2%) |
| Other Piston | 49.6 | 41.3 | 526.4 | 157.0 | 203.8 | 138.5 | 101.6 | 240.1 | 433.0 | 240.0 |
| | (26.5%) | (26.1%) | (30.6%) | (24.9%) | (42.2%) | (22.7%) | (45.4%) | (27.0%) | (24.8%) | (13.4%) |
| Turboprop—Total | 314.1 | 307.7 | 437.5 | 490.2 | 448.0 | 410.3 | 475.3 | 384.2 | 414.2 | 389.4 |
| 1 | (4.8%) | (4.3%) | (4.4%) | (4.3%) | (4.5%) | (4.7%) | (4.5%) | (4.2%) | (4.4%) | (6.3%) |
| Two Engine | 301.2 | 311.9 | 441.2 | 487.0 | 450.5 | 391.8 | 478.3 | 379.9 | 416.0 | 386.0 |
| | (5.5%) | (4.5%) | (4.7%) | (4.4%) | (4.6%) | (4.7%) | (4.6%) | (4.4%) | (4.5%) | (6.5%) |
| Other Turboprop | 381.6 | 279.2 | 392.5 | 581.8 | 389.0 | 845.0 | 392.5 | 591.0 | 339.0 | 578.0 |
| | (1.1%) | (14.0%) | (8.3%) | (13.7%) | (16.7%) | (24.5%) | (13.8%) | (6.0%) | (17.2%) | (22.7%) |
| Turbojet—Total | 270.7 | 289.7 | 340.6 | 372.5 | 396.5 | 352.8 | 363.7 | 365.3 | 353.6 | 382.2 |
| 1 | 3.6 | (4.0%) | (3.7%) | (3.4%) | (3.8%) | (3.6%) | (4.8%) | (4.0%) | (4.0%) | (5.9%) |
| Two Engine | 276.9 | 296.7 | 345.7 | 384.9 | 398.3 | 364.5 | 380.6 | 374.8 | 348.0 | 391.0 |
| | (3.7%) | (4.2%) | (4.0%) | (3.6%) | (4.1%) | (3.8%) | (4.8%) | (4.4%) | (4.1%) | (6.2%) |
| Other Turbojet | 180.8 | 192.0 | 293.2 | 258.6 | 401.4 | 247.0 | 226.2 | 297.4 | 392.0 | 273.0 |
| 1 | (13.4%) | (7.5%) | (10.8%) | (11.5%) | (10.4%) | (9.6%) | (28.0%) | (5.8%) | (14.7%) | (14.7%) |
| Rotorcraft—Total | 381.7 | 451.6 | 320.1 | 372.6 | 417.9 | 357.3 | 372.9 | 331.7 | 343.6 | 350.2 |
| J | (7.8%) | (7.8%) | (5.5%) | (0.8%) | (6.2%) | (7.0%) | (6.3%) | (6.8%) | (5.4%) | (6.3%) |
| Piston | 184.6 | 233.7 | 223.7 | 230.6 | 222.3 | 231.6 | 275.0 | 192.9 | 186.0 | 221.0 |
| ł | (11.8%) | (9.0%) | (8.9%) | (1.9%) | (9.0%) | (7.8%) | (11.1%) | (12.8%) | (9.7%) | (6.8%) |
| Turbine | 491.3 | 592.2 | 403.6 | 479.5 | 548.3 | 456.4 | 442.5 | 444.9 | 468.0 | 431.0 |
| Í | (9.1%) | (9.6%) | (6.9%) | (8.0%) | (7.6%) | (9.5%) | (7.6%) | (8.0%) | (6.4%) | (8.0%) |
| Other—Total | 50.9 | 61.4 | 51.6 | 55.0 | 88.7 | 61.0 | 56.0 | 65.9 | 56.5 | 71.1 |
| | (8.2%) | (9.7%) | (6.8%) | (7.5%) | (25.1%) | (5.5%) | (7.5%) | (7.6%) | (6.4%) | (11.3%) |
| Total All Aircraft | 140.4 | 149.1 | 162.1 | 157.7 | 158.6 | 152.4 | 154.8 | 160.1 | 158.1 | 164.0 |
| 1 | (1.8%) | (1.8%) | (1.7%) | (1.6%) | (1.7%) | (1.6%) | (1.6%) | (1.6%) | (1.6%) | (2.0%) |

Revised to correct for nonresponse bias
 NOTE: Columns may not add to totals due to rounding and estimation procedures.

TABLE 8.8 ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN BY FAA REGION AND STATE OF BASED AIRCRAFT 1992

| | Active A | Aircraft | Hours F | Flown |
|--------------------------|----------|------------------------------|----------------|------------------------------|
| FAA Region and State | Aircraft | Percent Standard Error | Hours (000) | Percent Standard Error |
| | 184,433 | 0.7% | 26,493 | 1.8 |
| Alaskan—Total | 6,082 | 7.8% | 1,041 | 10.7 |
| Central—Total | 10,251 | 6.2% | 1,364 | 8.2 |
| lowa | 2,489 | 13.1% | 314 | 16.0 |
| Kansas | 2,973 | 11.7% | 390 | 12.7 |
| Missouri | 3,068 | 11.6% | 466 | 17.1 |
| Nebraska | 1,721 | 15.8% | 195 | 17.3 |
| Eastern—Total | 21,681 | 4.1% | 2,858 | 5.7 |
| Delaware | 1,047 | 19.6% | 190 | 30.0 |
| District of Columbia | 12 | 150.0% | 6 | 157. |
| Maryland | 2,489 | 12.9% | 299 | 14. |
| New Jersey | 3,547 | 10.8% | 547 | 13. |
| New York | 5,615 | 8.5% | 681 | 11. |
| Pennsylvania | 5,398 | 8.7% | 626 | 9. |
| Virginia | 2,609 | 12.6% | 412 | 17. |
| West Virginia | 966 | 21.6% | 96 | 23. |
| Great Lakes—Total | 32,944 | 3.2% | 4,217 | 4. |
| lilinois | 6,373 | 8.0% | 879 | 8. |
| Indiana | 3,411 | 10.9% | 438 | 13. |
| Michigan | 6,248 | 8.0% | 718 | 9. |
| Minnesota | 4,517 | 9.6% | 587 | 11. |
| North Dakota | 1,323 | 18.1% | 221 | 26. |
| Ohio | 6,101 | 8.1% | 801 | 9. |
| South Dakota | 1,005 | 20.5% | 124 | 25. |
| Wisconsin | 3,965 | 10,2% | 449 | 11. |
| New England—Total | 7,248 | 7.5% | 811 | 9. |
| Connecticut | 1,589 | 16.2% | 211 | 18. |
| Maine | 982 | 21.6% | 102 | 26. |
| Massachusetts | 2.483 | 13.2% | 239 | 13. |
| New Hampshire | 1,385 | 17.2% | 160 | 23. |
| Rhode Island | 322 | 36.3% | 47 | 46. |
| Vermont | 487 | 28.7% | 51 | 36. |
| Northwest Mountain—Total | 19,152 | 4.5% | 2,392 | 5. |
| Colorado | 3,676 | 10.3% | 526 | 13. |
| kiaho | 1,804 | 15.5% | 232 | 18. |
| Montana | 1,923 | 15.4% | 187 | 18. |
| Oregon | 3,935 | | | - |
| | | 10.4% | 459 | 12. |
| Utah | 1,264 | 18.8% | 206 | 20. |
| Washington | 5,874 | 8.4% | 708 | 10. |
| Wyoming | 677 | 25.3% | 74 | 27. |
| Southern—Total | 30,793 | 3.4% | 4,973 | 4. |
| Alabama | 2,873 | 12.4% | 495 | 14. |
| Florida | 11,753 | 5.8% | 2,160 | 7. |
| Georgia | 4,326 | 9.8% | 654 | 10. |
| Kentucky | 1,472 | 16.8% | 195 | 21. |
| Mississippi | 1,776 | 15.3% | 317 | 19. |
| North Carolina | 3,729 | 10.6% | 447 | 11. |
| Puerto Rico | 370 | 33.0% | 82 | 28. |
| South Carolina | 1,669 | 15.9% | 233 | 19. |
| Tennessee | 2,763 | 12.2% | 345 | 14. |

TABLE 8.8-Continued ACTIVE GENERAL AVIATION AIRCRAFT AND HOURS FLOWN BY FAA REGION AND STATE OF BASED AIRCRAFT 1992

| | Active A | Aircraft | Hours F | lown |
|-----------------------|----------|------------------------------|----------------|------------------------------|
| FAA Region and State | Aircraft | Percent Standard Error | Hours (000) | Percent Standard Error |
| Southwest—Total | 24,884 | 3.8% | 3,926 | 5.1% |
| Arkansas | 2,469 | 12.6% | 488 | 13.7% |
| Louisiana | 2,823 | 11.8% | 832 | 15.4% |
| New Mexico | 2,043 | 13.6% | 262 | 18.3% |
| Okiahoma | 2,762 | 12.3% | 392 | 15.9% |
| Texas | 14,787 | 5.1% | 1,952 | 5.9% |
| Western-Pacific—Total | 31,394 | 3.3% | 4,913 | 4.3% |
| Arizona | 4,355 | 9.7% | 816 | 12.6% |
| California | 24,909 | 3.8% | 3,617 | 4.3% |
| Hawaii | 372 | 31.2% | 176 | 34.5% |
| Nevada | 1,684 | 15.3% | 305 | 24.7% |

NOTE: Column totals may differ from printed totals due to estimation procedures.

IX. AIRCRAFT ACCIDENTS

The data presented in this chapter were obtained from the National Transportation Safety Board.

The Safety Board's statistics categorize aviation accidents according to the Federal Air Regulations under which the accident flights were made. The groupings are:

- Large airlines in scheduled and nonscheduled service under Part 121 of the regulations
- Commuter carriers in scheduled service under Part 135
- "On-demand" air taxis in unscheduled operations under Part 135, and
- General aviation—all other civil flying.

See Glossary under "Aircraft Accident": for NTSB definitions for the following terms: "Fatal Injury", "Operator", "Serious Injury", and "Substantial Damage".

More detailed accident data may be obtained from the National Transportation Safety Board.

2929.FMT 64/29/93

TABLE 9.1 AIR CARRIER and GENERAL AVIATION AIRCRAFT ACCIDENTS AND FATALITIES

(Preliminary Data) 1992

| Air Carrier and General Aviation Operations | Number der | | Number of Fatalities | |
|---|---------------|-------|-------------------------|--|
| | Total | Fatal | Fatainties | |
| Air Carriers | | | | |
| Air Carriers Operating Under 14 CFR 121 1 | | | | |
| Scheduled | 17 | 4 | 33 | |
| Nonscheduled | 2 | 0 | 0 | |
| Air Carriers Operating under 14 CFR 135 | | | | |
| Scheduled 2 | 23 | 7 | 21 | |
| Nonscheduled 3 | 74 | 24 | 66 | |
| General Aviation 4 | 1,956 | 408 | 812 | |

Source: National Transportation Safety Board.

TABLE 9.2 **AIRLINES**

(Air Carriers Operating under 14 CFR 121) **ACCIDENTS, FATATITIES, AND RATES**

(Preliminary Data)

1992

| | Scheduled | Non- scheduled |
|---------------------------------------|-----------|-------------------|
| Accidents | | |
| Total | 17 | 2 |
| Fatal | 4 | \ c |
| Fatalities | 33 |) 0 |
| Aircraft Hours Flown (000)1 | 11,600 | 630 |
| Departures (000)1 | 7,630 | 360 |
| Accident Rate Per 100,000 Hours Flown | | 1 |
| Total | 0.15 | 0.32 |
| Fatal | 0.03 | 0.00 |
| Accident Rate Per 100,000 Departures | ĺ | ĺ |
| Total | 0.22 | 0.56 |
| Fatal | 0.05 | 0.00 |

¹ Exposure data estimate source: Research and Special Programs Administration and FAA

Source: National Transportation Safety Board.

¹ Airlines
2 Commuters
3 On-Demand Taxis
4 Includes accidents involving aircraft flown under rules other than CFR 121 and CFR 135.

TABLE 9.3 AIRLINES

(Air Carriers Operating under 14 CFR 121) FATAL ACCIDENTS, FATALITIES

(Preliminary Data) 1992

| | | | Serv- | | | Fata | lities | | Total | |
|------------------------------------|---------------------|---------|-------|-----------------|-------|----------------|--------|--------|--------|---|
| Location | Operator | Date | ice | Aircraft | Total | Pas- senger | Crew | Others | Aboard | Reported Type of Accident |
| SCHEDULED SERVICE | | | | | | | | | | |
| Total | | } | | ' | 33 | 26 | 5 | 2 | 143 | |
| Swanton, OH | Air Transport Int'i | Feb 15 | Cargo | DC-8-63 | 4 | 1 | 3 | 0 | 4 | Crashed during a missed approach. |
| Flushing, NY | ÙSAIr | Mar 22 | Psgr | F-28-4000 | 27 | 25 | 2 | 0 | 51 | Crashed during takeoff in wet snow. |
| Dayton, OH | Trans World | April 8 | Psgr | DC-9-32 | 1 | 0 | 0 | 1 | 28 | Mechanic killed by exploding wheel rim |
| Flushing, NY | USAir | Dec 8 | Pagr | B-737- 300LS | 1 | o | 0 | 1 | 60 | Ground crewman struck by tug during pushback. |
| NONSCHEDULED SERV- ICE None. | | | | <u>.</u> | | | | | | |

Source: National Transportation Safety Board.

TABLE 9.4 AIRLINES: SCHEDULED AND NONSCHEDULED SERVICE 1 **ACCIDENTS, FATALITIES AND RATES**

(U.S. Air Carriers Operating Under 14 CFR 121) 1983-1992

| | 1983 | 1984 | 1985 | 1986 4 | 19674 | 19884 | 19894 | 19904 | 19914 | 1992 5 |
|---------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Accidents | | | | | | | | | | |
| Total | 24 | 17 | 22 | 24 | 36 | 29 | 28 | 26 | 27 | 19 |
| Fatal | 4 | 1 | 7 | 3 | 5 | 3 | 11 | 6 | 4 | 4 |
| Total Fatalities | 15 | 4 | 526 | 8 | 232 | 285 | 278 | 39 | 62 6 | 33 |
| Aircraft Hours Flown (000) 2 | 7,299 | 8,165 | 8,710 | 9,976 | 10,645 | 11,140 | 11,274 | 12,149 | 11,894 | 12,230 |
| Aircraft Miles Flown (000,000) 2 | 3,069 | 3,428 | 3,631 | 4,018 | 4,361 | 4,503 | 4,605 | 4,954 | 4,825 | 4,987 |
| Departures (000) 2 | 5,444 | 5,899 | 6,307 | 7,202 | 7,601 | 7,716 | 7,645 | 8,127 | 7,859 | 7,990 |
| Accident Rate Per 100,000 Hours | | | | | | ļ | | | | |
| Flown | | ſ | | I | • | İ | | | | |
| Total | 0.33 | 0.21 | 0.25 | 0.23 | 0.33 | 0.25 | 0.25 | 0.21 | 0.23 | 0.16 |
| Fatal | 0.06 | 0.01 | 0.08 | 0.02 | 0.04 | 0.02 | 0.10 | 0.05 | 0.03 | 0.03 |
| Accident Rate Per Million Miles Flown | | | i | | | 1 | | | | |
| Total | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.003 |
| Fatal | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Accident Rate Per 100,000 Depar- | | ì | 1 | | | j | | | | |
| tures | | ŀ | | | | | | | | |
| Total | 0.44 | 0.29 | 0.35 | 0.32 | 0.46 | 0.36 | 0.37 | 0.32 | 0.34 | 0.24 |
| Fatal | 0.07 | 0.02 | 0.11 | 0.03 | 0.05 | 0.03 | 0.14 | 0.07 | 0.05 | 0.05 |

<sup>Includes accidents involving deregulated all-cargo air carriers and commercial operators of large aircraft when those accidents occurred during acheduled 14 CFR 121 operations.
Exposure data estimate source: Research and Special Programs Administration.
Rounds to 0.00.
Revised.
Preliminary.
Includes 12 persons killed on a Skywest commuter aircraft and 22 persons killed on an USAir airliner when the two aircraft collided.</sup>

Source: National Transportation Safety Board

NOTE: The following suicide/sabotage cases are included in Accidents and Fatalities but not in Accident Rates:

| Date | Operator | Total | Aboard |
|----------|-------------------|-------|--------|
| 04/02/86 | Trans World | 4 | 4 |
| 12/07/87 | Pacific Southwest | 43 | 43 |
| 12/21/88 | Pan American | 270 | 259 |

TABLE 9.5 AIRLINES: SCHEDULED SERVICE 1 **ACCIDENTS, FATALITIES AND RATES**

(U.S. Air Carriers Operating Under 14 CFR 121) 1982-1991

| | 1983 | 1984 | 1985 | 19864 | 19874 | 19884 | 1989 4 | 19904 | 19914 | 19925 |
|---------------------------------------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Accidents | | | | | | | | | | |
| Total | 22 | 13 | 17 | 21 | 32 | 28 | 24 | 24 | 26 | 17 |
| Fatal | 4 | 1 | 4 | 2 | 4 | 3 | 8 | 6 | 4 | 4 |
| Total Fatalities | 15 | 4 | 197 | 5 | 231 | 285 | 131 | 39 | 62 9 | 33 |
| Aircraft Hours Flown (000) 2 | 6,915 | 7,736 | 8,265 | 9,496 | 10,116 | 10,521 | 10,598 | 11,525 | 11,254 | 11,600 |
| Aircraft Miles Flown (000,000) 2 | 2,921 | 3,259 | 3,453 | 3,829 | 4,126 | 4,261 | 4,338 | 4,696 | 4,562 | 4,735 |
| Departures (000) 2 | 5,235 | 5,666 | 6,069 | 6,928 | 7,293 | 7,347 | 7,269 | 7,833 | 7,553 | 7,630 |
| Accident Rate Per 100,000 Hours Flown | | | | | ĺ | | | | 1 | { |
| Total | 0.32 | 0.17 | 0.21 | 0.21 | 0.31 | 0.26 | 0.23 | 0.21 | 0.23 | 0.15 |
| Fatai | 0.06 | 0.01 | 0.05 | 0.01 | 0.03 | 0.02 | 0.08 | 0.05 | 0.04 | 0.03 |
| Accident Rate Per Million Miles Flown | j | ļ | | | | | ļ | | | |
| Total | 0.01 | 0.003 | 0.003 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.003 |
| Fatai | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Accident Rate Per 100,000 Departures | į | Į | | | | | | | [| |
| Total | 0.42 | 0.23 | 0.28 | 0.29 | 0.43 | 0.37 | 0.33 | 0.31 | 0.34 | 0.22 |
| Fatai | 0.08 | 0.02 | 0.07 | 0.01 | 0.04 | 0.03 | 0.11 | 0.08 | 0.05 | 0.05 |

<sup>Includes accidents involving deregulated all-cargo air carriers and commercial operators of large aircraft when those accidents occurred during scheduled 14 CFR 121 operations.

Exposure data estimate source: Research and Special Programs Administration.

Rounds to 0.00.

Revised.

Preliminary.

Includes 12 persons killed on a Skywest commuter aircraft and 22 persons killed on an USAir airliner when the two aircraft collided. Source: National Transportation Safety Board

NOTE: The following suicide/sabotage cases are included in Accidents and Fatalities but not in Accident Rates:</sup>

| Date | Location | Operator | Total | Aboard |
|----------|---------------------|-------------------|----------------|----------------|
| 12/07/87 | Near Athens, Greece | Pacific Southwest | 4 43 270 | 4 43 259 |

TABLE 9.6 AIRLINES: NONSCHEDULED SERVICE 1 **ACCIDENTS, FATATITIES AND RATES**

(U.S. Air Carriers Operating Under 14 CFR 121) 1983-1992

| | 1983 | 1984 | 1985 | 19864 | 19874 | 19884 | 19894 | 19904 | 1991 4 | 19925 |
|---------------------------------------|------|------|------|-------|-------|-------|-------|-------|--------|-------|
| Accidents | | | | | | | | | | |
| Total | 2 | 4 | 5 | 3 | 4 | 1 | 4 | 2 | 1 | 2 |
| Fatal | 0 | 0 | 3 | 1 | 1 | 0 | 3 | 0 | 0 | 0 |
| Total Fatalities | 0 | 0 | 329 | [3 | 1 1 | 0 | 147 | 0 | 0 | 0 |
| Aircraft Hours Flown (000)1 | 384 | 429 | 445 | 481 | 529 | 618 | 676 | 624 | 640 | 630 |
| Aircraft Miles Flown (000,000)1 | 148 | 169 | 178 | 188 | 235 | 243 | 267 | 258 | 263 | 252 |
| Departures (000)1 | 209 | 233 | 238 | 274 | 308 | 368 | 376 | 294 | 306 | 360 |
| Accident Rate Per 100,000 Hours Flown | | | | İ | 1 1 | i | | l | | , |
| Total | 0.52 | 0.93 | 1.13 | 0.62 | 0.76 | 0.16 | 0.59 | 0.32 | 0.16 | 0.32 |
| Fatal | 0.00 | 0.00 | 0.68 | 0.21 | 0.19 | 0.00 | 0.44 | 0.00 | 0.00 | 0 |
| Accident Rate Per Million Miles Flown | | | | [| 1 1 | | | • |] | |
| Total | 0.01 | 0.02 | 0.03 | 0.02 | 0.02 | 0.003 | 0.02 | 0.01 | 0.003 | 0.01 |
| Fatal | 0.00 | 0.00 | 0.02 | 0.01 | 0.003 | 0.00 | 0.01 | 0.00 | 0.00 | 0 |
| Accident Rate Per 100,000 Departures | | | | | 1 | | | [| [| |
| Total | 0.96 | 1.72 | 2.10 | 1.10 | 1.30 | 0.27 | 1.06 | 0.68 | 0.33 | 0.56 |
| Fatal | 0.00 | 0.00 | 1.26 | 0.37 | 0 32 | 0.00 | 0.80 | 0.00 | 0.00 | 0 |

¹ Includes accidents involving deregulated all-cargo air carriers and commercial operators of large aircraft when those accidents occurred during scheduled 14 CFR 121 operations.

² Exposure data estimate source: Research and Special Programs Administration.

³ Rounds to 0.00.

⁴ Revised.

⁵ Preliminary.

Source: National Transportation Safety Board

TABLE 9.7 **COMMUTER AIR CARRIERS**

(Air Carriers Operating under 14 CFR 135) **FATAL ACCIDENTS, FATALITIES**

> (Preliminary Data) 1992

| | | | Serv- | | | Fatalities | | | | |
|-------------------------|----------------|--------|-------|----------|-------|----------------|------|--------|-----------------|--------------------------------------|
| Location | Operation | Date | ice | Aircraft | Total | Pas- senger | Crew | Others | Total Aboard | Reported Type of Accident |
| Total | | | | 21 | 13 | 8 | 0 | 26 | | |
| Gabriels, NY | USAir Express | Jan 3 | Pagr | BE-1900C | 2 | 1 | 1 | 0 | 4 | Crashed 5 miles from destination. |
| Clewiston, FL | Air Sunshine | Jan 23 | Pagr | 402-C | 2 | 1 | 1 | 0 | 2 | Crashed during descent. |
| Asyaguez, Puerto Rico | American Eagle | June 7 | Pagr | Casa 212 | 5 | 3 | 2 | 0 | 5 | Crashed during approach. |
| R. McClellan, AL | GP Express | June 8 | Pagr | C-99 | 3 | 2 | 1 | 0 | 6 | Crashed during approach. |
| Baipan, Mariana Islands | Pacific Island | Oct 26 | Pagr | 310R | 3 | 2 | 1 | 0 | 3 | Crashed during initial climb. |
| Brand Junction, CO | Alpine Air | Oct 31 | Pagr | PA-42 | 3 | 2 | 1 | 0 | 3 | Crashed during decent. |
| Klana, AK | Baker Aviation | Nov 8 | Pagr | 402-C | 3 | 2 | 1 | 0 | 3 | Crashed into mountain while enroute. |

Source: National Transportation Safety Board

TABLE 9.8 COMMUTER AIR CARRIERS

(U.S. Air Carriers Operating under 14 CFR 135) 1 AIRCRAFT ACCIDENTS, FATALITIES, AND RATES 1982-1991

| | 19834 | 1984 | 1985 | 19864 | 19874 | 19884 | 19894 | 19904 | 1991 4 | 19825 |
|---|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Accidents | | | | | | | | | | |
| Total | 17 | 22 | 21 | 15 | 32 | 19 | 18 | 15 | 22 | 23 |
| Fatal | 2: | 7 | 7 | 2 | 10 | 2 | 5 | 3 | 8 | 7 |
| atalities | 11 | 48 | 37 | 4 | 59 | 21 | 31 | 6 | 99 6 | 21 |
| Aircraft Hours Flown (000) 2 | 1,511 | 1,746 | 1,737 | 1,725 | 1,946 | 2,093 | 2,241 | 2,337 | 2,172 | 2,180 |
| Nircraft Miles Flown (000,000) 2 | 254 | 291 | 301 | 307 | 351 | 380 | 394 | 450 | 381 | 408 |
| Departures (000) 2 | 2,328 | 2,677 | 2,561 | 2,799 | 2,810 | 2,909 | 2,819 | 3,160 | 2,719 | 2,880 |
| Accident Rate Per 100,000 Hours Flown 3 | | ł | | Ì | 1 | | | | | |
| Total | 1.13 | 1.26 | 1.21 | 0.87 | 1.64 | 0.91 | 0.80 | 0.64 | 1.01 | 1.01 |
| Fatal | 0.13 | 0.40 | 0.40 | 0.12 | 0.51 | 0.10 | 0.22 | 0.13 | 0.37 | 0.32 |
| Accident Rate Per Million Miles Flown 3 | | | l . | | | | } | | | |
| Total | 0.07 | 0.08 | 0.07 | 0.05 | 0.09 | 0.05 | 0.05 | 0.03 | 0.06 | 0.06 |
| Fatal | 0.01 | 0.02 | 0.02 | 0.01 | 0.03 | 0.01 | 0.01 | 0.01 | 0.02 | 0.02 |
| Accident Rate Per 100,000 Departures 3 | | | ĺ | | Ì | | | | 1 | |
| Total | 0.73 | 0.82 | 0.82 | 0.54 | 1.14 | 0.65 | 0.64 | 0.48 | 0.81 | 0.8 |
| Fatal | 0.09 | 0.26 | 0.27 | 0.07 | 0.36 | 0.07 | 0.18 | 0.10 | 0.29 | 0.24 |

<sup>Includes accidents involving deregulated all-cargo air carriers and commercial operators of large aircraft when those accidents occurred during scheduled 14 CFR 121 operations.

Exposure data estimate source: Research and Special Programs Administration.

Rates are based on all accidents including some involving operators not reporting to RSPA.

Revised.

Preliminary.

Includes 12 persons killed on a Skywest commuter aircraft and 22 persons killed on an USAir airliner when the two aircraft collided.</sup>

Source: National Transportation Safety Board

TABLE 9.9 **ON-DEMAND AIR TAXIS**

(U.S. Air Carriers Operating under 14 CFR 135) AIRCRAFT ACCIDENTS, FATALITIES, AND RATES 1983-1992

| | Number Of | Accidents | Total | Aircraft Hours | Accident Rate Per 100,000 Aircraft Hours | | |
|--------|-----------|-----------|------------|----------------|---|--------------------|--|
| Year | Total | Fatal | Fatalities | Flown (000) 1 | Total Accidents | Fatal Accidents | |
| 1983 2 | 141 | 27 | 62 | 2,378 | 5.93 | 1.14 | |
| 19832 | 146 | 23 | 52 | 2,843 | 5.14 | 0.81 | |
| 19852 | 154 | 35 | 76 | 2,570 | 5.99 | 1.36 | |
| 19862 | 117 | 31 | 65 | 2,690 | 4.35 | 1.15 | |
| 19872 | 97 | 30 | 65 | 2,657 | 3.65 | 1.13 | |
| 1988 2 | 101 | 28 | 59 | 2,632 | 3.84 | 1.06 | |
| 19892 | 111 | 25 | 83 | 3,020 | 3 68 | 0.83 | |
| 19902 | 108 | 28 | 49 | 2,245 | 4.82 | 1.25 | |
| 19912 | 88 | 26 | 73 | 2,241 | 3.93 | 1.16 | |
| 19923 | 74 | 24 | 66 | 2,230 | 3.32 | 1.08 | |

¹ Exposure data estimate from FAA. ² Revised ³ Preliminary

Source: National Transportation Safety Board.

TABLE 9.10 U.S. GENERAL AVIATION FLYING

(All Operations other than those Operating under 14 CFR 121 or 14 CFR 135) AIRCRAFT ACCIDENTS, FATALITIES, AND RATES 1983-1992

| | Number O | Accidents | Total | Aircraft Hours | Accident Rate Per 100,000 Aircraft Hours 2 | | |
|--------|----------|-----------|------------|----------------|---|--------------------|--|
| Year | Total | Fatal | Fatalities | Flown (000) 1 | Total Accidents | Fatal Accidents | |
| 1983 3 | 3,077 | 556 | 1,069 | 28,673 | 10.73 | 1.94 | |
| 19843 | 3,016 | 545 | 1,042 | 29,099 | 10.35 | 1.87 | |
| 19853 | 2,738 | 498 | 955 | 28,322 | 9.66 | 1.75 | |
| 19863 | 2,582 | 474 | 967 | 27,073 | 9.54 | 1.75 | |
| 19873 | 2,494 | 447 | 838 | 26,972 | 9.24 | 1.65 | |
| 19883 | 2,386 | 460 | 800 | 27,446 | 8.69 | 1.68 | |
| 1989 3 | 2,233 | 432 | 768 | 27,920 | 7.98 | 1.53 | |
| 19903 | 2,218 | 445 | 763 | 28,510 | 7.78 | 1.56 | |
| 19913 | 2,143 | 414 | 746 | 27,226 | 7.87 | 1.52 | |
| 19924 | 1,956 | 408 | 812 | 27,190 | 7.19 | 1.5 | |

Suicide/sabotage accidents are excluded from rates.
 Exposure data estimate from FAA.
 Revised
 Pretiminary

Source: National Transportation Safety Board.

X. AERONAUTICAL PRODUCTION AND IMPORTS/EXPORTS

The aircraft production information presented in this chapter was obtained from the Bureau of Census: Complete Aircraft Plant Report (Form M37G). The shipment data shows the number of civil aircraft shipped by the United States manufacturers and includes both aircraft shipped within the United States and those exported.

Import and export data were obtained from the Aerospace Industries Association of America, Inc. and were based on Bureau of the Census data from special monthly compilation of Annual Reports 246 and 446, respectively.

TABLE 10.1
TOTAL CIVIL AIRCRAFT PRODUCTION, WEIGHT, AND COST
CALENDAR YEARS 1983-1992

| | Calendar Year | Number of Aircraft | Value Complete Aircraft (\$000) | Average Complete Aircraft Cost |
|------|-------------------------------------|-----------------------|--|---|
| 1983 | | 2,784 | 9,915,761 | 3,561,696 |
| 1984 | | 2,635 | 7,911,543 | 3,002,483 |
| 1985 | | 2,457 | 10,939,831 | 4,452,516 |
| 1986 | | 2,888 | 12,517,992 | 4,334,485 |
| 1987 | | 2,319 | 12,491,743 | 5,386,394 |
| 1988 | | 2,681 | 16,019,855 | 5,975,328 |
| 1989 | | 3,129 | 17,467,335 | 5,582,402 |
| 1990 | | 2,785 | 24,864,289 | 8,927,931 |
| 1991 | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2,867 | 29,780,358 | 10,387,289 |
| 1992 | | 2,517 | 31,733,026 | 12,607,480 |

Source: U.S. Department of Commerce, Bureau of the Census, industry Division.

TABLE 10.2 NUMBER OF SHIPMENTS OF COMPLETE CIVIL AIRCRAFT 1983–1992

| Item | 1992 | 1991 | 1990 | 1989 | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Total | 2,517 | 2,867 | 2,785 | 3,129 | 2,681 | 2,319 | 2,888 | 2,842 | 3,028 | 3,217 |
| Fixed Wing | 1,539 | 1,598 | 1,759 | 2,014 | 1,734 | 1,516 | 1,858 | 2,457 | 2,635 | 2,784 |
| Rotorcraft | 308 | 574 | 582 | 603 | 517 | 360 | 493 | 385 | 393 | 433 |
| Other | 670 | 695 | 444 | 512 | 430 | 443 | 537 | NA | NA | NA |

NOTE: Other includes balloons, dirigibles, airships, gliders, sailplanes, and aircraft sold in kits (except hang gliders).

Source: Current Industrial Reports: Complete Aircraft and Aircraft Engines, M37G-13; Department of Commerce, Bureau of the Centure

TABLE 10.3 NUMBER OF U.S. IMPORTS OF CIVIL AEROSPACE PRODUCTS 1983–1992

| Nem | 1968 | 1987 | 1986 | 1965 | 1984 | 1983 |
|--|------|------|------|------|------|------|
| Aircraft Used or Rebuilt, Civil | 194 | 115 | 141 | 246 | 223 | 181 |
| Helicopters, Civil | 114 | 98 | 87 | 60 | 61 | 100 |
| Aircraft, Single-Engine, Civil | 40 | 41 | 71 | 46 | 21 | 6 |
| Aircraft, Multiengine Under 4,400 lbs., Civil | 3 | 1 | 18 | 8 | 33 | 18 |
| Aircraft, Multiengine, 4,400 to 10,000 lbs., Civi | 74 | 101 | 58 | 46 | 58 | 52 |
| Aircraft, Multiengine, 10,000 to 33,000 lbs. Civil | 152 | 155 | 150 | 103 | 95 | 93 |
| Aircraft, Multiengine, Over 33,000 lbs., Oivil | 18 | 22 | 36 | 29 | 12 | 7 |
| Balloons, and Airships, Civil | 0 | 0 | 0 | 0 | 0 | 0 |
| Gliders, Civil | 111 | 117 | 181 | 628 | 448 | 229 |

NOTE: Categories were changed to reflect Commerce Department's change to the Harmonized Trade Schedule. Historical data are not available in these new categories.

| Item | 1992 | 1991 | 1990 | 1989 |
|--------------------|------|-----------|-------|------|
| Complete Aircraft | 946 | 955 | 1,262 | 674 |
| Transports | 64 | 44 | 30 | 36 |
| Passenger | 64 [| 44 | 30 | 33 |
| Cargo | - | -1 | _1 | - |
| Other Combinations | -1 | [| [| 3 |
| General Aviation | 216 | 254 | 743 | 213 |
| Single Engine | 67 | 72 | 522 | 59 |
| Multi Engine | 149 | 182 | 221 | 154 |
| Small | 7 | 1 | 5 | 1 |
| Medium | 18 | 41 | 53 | 27 |
| Large | 124 | 140 | 163 | 126 |
| Turbojet/Turbofan | 52 | 45 | 63 | 39 |
| Others | 72 | 95 | 100 | 87 |
| Helicopters | 148 | 244 | 167 | 124 |
| Small | 3 | 4 | 21 | g |
| Lerge | 145 | 240 | 146 | 115 |
| Others | 521 | 413 | 322 | 301 |
| Used/Rebuilt | 176 | 246 | 130 | 210 |
| New | 345 | 167 | 192 | 91 |

Source: Aerospace Industries Association, Inc. based on Bureau of Census data from special monthly compilation of Annual Report, FT-410.

TABLE 10.4 NUMBER OF U.S. EXPORTS OF CIVIL AEROSPACE PRODUCTS 1983-1992

| tem | 1988 | 1987 | 1986 | 1985 | 1984 | 1983 |
|--|-------|------|------|------|------|------|
| Aircraft Used or Rebuilt, Civil | 1,644 | 969 | 494 | 277 | 304 | 224 |
| Aircraft Hellcopter, New, Under 2200 lbs., Civil | 161 | 129 | 104 | 68 | 155 | 141 |
| Aircraft, Helicopter, New, Over 2200 lbs., Civil | 119 | 152 | 106 | 69 | 78 | 75 |
| Aircraft, Single-Engine New Civil | 459 | 307 | 220 | 334 | 271 | 279 |
| Aircraft, Multiengine, New, Under 4400 lbs., Civil | 51 | 51 | 63 | 66 | 53 | 106 |
| Aircraft, Multiengine, New, Over 4400 lbs., Under 10,000 lbs., Civil | 109 | 127 | 93 | 65 | 83 | 112 |
| Aircraft, Multiengine, New, Over 10,000 lbs., Under 33,000 lbs., Civil | 24 | 24 | 38 | 19 | 18 | 22 |
| Aircraft, Passenger, New, Over 33,000 ibs., Civil | 205 | 160 | 149 | 140 | 77 | 122 |
| Alrcraft, Cargo, New, Over 33,000 lbs., Civil | 8 | 4 | 2 | 6 | 3 | 2 |
| Aircraft Other, New, Over 33,000 lbs., Including Combinations, Civil | 4 | 6 | 8 | 6 | 3 | 5 |
| Aircraft Other, New, Including Balloons, Gliders & Kites, Civil | 0 | 0 | 0 | 0 | 0 | 0 |

NOTE: Categories were changed to reflect Commerce Department's change to the Harmonized Trade Schedule. Historical data are not available in these new categories.

| Item | 1992 | 1991 | 1990 | 1989 |
|--------------------|-------|-------|-------|-------|
| Complete Aircraft | 2,374 | 4,204 | 4,814 | 6,452 |
| Transports | 387 | 385 | 297 | 260 |
| Passenger | 376 | 371 | 294 | 256 |
| Cargo | 1 | 5 | 3 (| 1 |
| Other Combinations | 10 | 9 | 0 | 3 |
| General Aviation | 358 | 534 | 1,144 | 1,597 |
| Single Engine | 186 | 345 | 896 | 1,406 |
| Multi Engine | 172 | 189 | 248 | 191 |
| Small | 19 | 22 | 33 | 39 |
| Medium | 93 | 98 | 136 | 104 |
| Large | 60 | 69 | 79 | 48 |
| Turbojet/Turbofan | 59 | 58 | 63 | 35 |
| Others | 1 | 11 | 16 | 13 |
| Helicopters | 212 | 318 | 349 | 294 |
| Small | 175 | 246 | 266 | 186 |
| Large | 37 | 72 | 83 | 108 |
| Others | 1,417 | 2,967 | 3,024 | 4,301 |
| Used/Rebuilt | 1,031 | 1,834 | 1,911 | 1,700 |
| New | 386 | 1,133 | 1,113 | 2,601 |

Source: Aerospace Industries Association, Inc. based on Bureau of Census data from special monthly compilation of Annual Report, FT-410.

2929.FMT 04/29/93

COMMON ACRONYMS

| AAS | Airport Advisory Service |
|------------|--|
| ADF | Automatic Direction Finder |
| ARSR | Air Route Surveillance Radar |
| ARTCC | Air Route Traffic Control Center |
| ASR | Airport Surveillance Radar |
| ATC | Air Traffic Control |
| ATCT | Airport Traffic Control Tower |
| CAB | Civil Aeronautics Board |
| DME | Distance Measuring Equipment |
| DVFR | Defense Visual Flight Rules |
| FAA | Federal Aviation Administration |
| FAR | Federal Aviation Regulation |
| FSS | Flight Service Station |
| ICAO | International Civil Aviation Organization (Montreal, Canada) |
| IFR | Instrument Flight Rules |
| IFSS | International Flight Service Station |
| ILS | Instrument Landing System |
| LDA | Landing Directional Aid |
| LRNAV | Long Range Navigation |
| MLS | Microwave Landing System |
| NAS | National Airspace System |
| NAVAIDS | Navigation Aids |
| NOTAMS | Notice to Airmen |
| NTSB | National Transportation Safety Board |
| RNAV | Area Navigation |
| RSPA | Research and Special Programs Administration |
| VFR | Visual Flight Rules |
| VHR | Very High Frequency |
| VOR/VORTAC | Very High Frequence Omnidirectional Radio Range |

GLOSSARY

Active Aircraft—All legally registered civil aircraft which flew one or more hours.

Aerial Application—See Primary Use.

Aerial Observation-See Primary Use.

Air Carriers—The commercial system of air transportation consisting of the certificated air carriers, air taxis (including commuters), supplemental air carriers, commercial operators of large aircraft, and air travel clubs.

Certificated air carrier—An air carrier holding a Certificate of Public Convenience and Necessity issued by DOT to conduct scheduled services interstate. Nonscheduled or charter operations may also be conducted by these carriers. These carriers operate large aircraft (30 seats or more or a maximum payload capacity of 7,500 pounds or more) in accordance with FAR Part 121.

Air taxi—A classification of air carriers which transports in accordance with FAR part 135 persons, property, and mail using small aircraft (under 30 seats or a maximum payload capacity of less than 7,500 pounds)

Commuter air carrier—an air taxi operator which performs at least five round trips per week between two or more points and publishes flight schedules which specify the times, days of the week, and points between which such flights are performed.

Supplemental air carrier (Charter)—An air carrier which holds Certificates of Public Convenience and Necessity issued by the DOT, authorizing performance of passenger and cargo interstate charter services supplementing the scheduled service of the certificated air carriers. The authority of supplemental air carriers to engage in military charters is of an indefinite period. In addition, they can perform on an emergency basis, as may be authorized by the DOT, scheduled operations including the transportation of individually ticketed passengers and individually waybilled cargo.

Commercial operator—a person who for compensation or hire engages in the intrastate carriage of aircraft in air commerce of persons or property other than as an air carrier or foreign air carrier.

Commercial operator of large aircraft—commercial operator operating aircraft with 30 seats or more or a maximum payload capacity of 7,500 pounds or more.

Aircraft Accident—As defined by the National Transportation Safety Board, it is "an occurrence associated with the operation of an aircraft which takes place between the time any person boards the aircraft with the intention of flight until such time as all such persons have disembarked, and in which any person suffers death or serious injury as a result of being in or upon the aircraft or by direct contact with the aircraft or anything attached thereto, or in which the aircraft receives substantial damage."

Fatal Injury means any injury which results in death within 7 days of the accident.

Operator means any person who causes or authorizes the operation of an aircraft, such as the owner, leasee, or bailee of an aircraft.

Serious Injury means any injury which (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fractures of fingers, toes, or nose); (3) involves lacerations which cause severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

Substantial damage:

Except as described below, substantial damage means damage or structural failure which adversely affects the structural strength, performance, or flight characteristics of the aircraft, and which would normally require major repair or replacement of the affected component.

Exceptions: engine failure, damage limited to an engine, bent fairings or cowling, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, damage to landing gear, wheels, tires, flaps, engine accessories, brakes or wingtips are not considered substantial for the purpose of this part.

Aircraft Contact—Aircraft with which the flight service stations (FSS) have established radio communications contact. One count is made for each enroute, landing, or departing aircraft contacted by an FSS regardless of the number of contacts made with an individual aircraft during the same flight. A flight contacting five FSS's would be counted as five aircraft contacted.

Aircraft Handled-See IFR Aircraft Handled.

Aircraft Type—A term used in this publication in grouping aircraft by basic configuration—fixed—wing, rotor-craft, glider, dirigible, and balloon.

Airline Transport Pilot-See Pilot.

Airman—A pilot, mechanic, or other licensed aviation technician.

Airman Certificate—A document issued by the Administrator of the Federal Aviation Administration certifying that the holder complies with the regulations governing the capacity in which the certificate authorizes the holder to act as an airman in connection with aircraft.

Airport—An area of land or water that is used or intended to be used for the landing and takeoff of aircraft, and includes its buildings and facilities, if any.

Airport Advisory Service (AAS)—A service provided by flight service stations at airports not served by a control tower. This service consists of providing information to landing and departing aircraft concerning wind direction and velocity, favored runway, altimeter setting, pertinent known traffic, pertinent known field conditions, airport taxi routes and traffic patterns, and authorized instrument approach procedures.

Airport Operation—an aircraft takeoff or landing. There are two types of operations—local and itinerant.

Local operations are performed by aircraft which:

- (a) Operate in the local traffic pattern or within sight of the airport.
- (b) Are known to be departing for, or arriving from, flight in local practice areas within a 20-mile radius of the airport.
- (c) Execute simulated instrument approaches or low passes at the airport.

Itinerant operations are all airport operations other than local operations.

Airport Traffic—Aircraft operating in the air or on an airport surface exclusive of loading ramps and parking areas.

Airport Traffic Control Service—Air traffic control service provided by an airport traffic control tower for aircraft operating on the movement area and in the vicinity of an airport.

Airport Traffic Control Tower (ATCT)—A central operations facility in the terminal air traffic control system, which consist of a tower cab structure, including an associated IFR room if radar equipped, and uses air/ground

- communications, radar, visual signaling, and other services to provide safe and expeditious movement of terminal air traffic.
- Airports Grants-in-Aid Program—A grant of funds by the Secretary cf Transportation under the Airport & Airway Improvement Act of 1982 to a sponsor for the accomplishment of one or more projects.
 - **Project**—Projects (or separate projects submitted together) for the accomplishment of airport development or airport planning, including the combined submission of all projects which are to be undertaken at an airport in a fiscal year.
 - Sponsor—Any private owner of a public-use air OR any public agency (either individually or jointly with other public agencies) that submit to the Secretary of Transportation, in accordance with the Airport & Airway Improvement Act of 1982, an application for financial assistance.
 - **Primary Airports**—A commercial service airport which is determined to have .01 percent or more of the total number of passengers enplaned annually at all commercial service airports.
 - Commercial Airports—(also known as commercial service airports)—A public airport which is determined to enplane annually 2,500 or more passengers and receive scheduled passenger service of aircraft.
 - Reliever Airports—An airport designated as having the function of relieving congestion at a commercial service airport and providing more general aviation access to the overall community.
 - General Aviation Airports—(also known as public airports)—Any airport which is used or to be used for public purposes, under the control of a public agency, the landing area of which is publicly owned.
 - System Planning—(also known as integrated airport system planning)—The initial, as well as continuing development for planning purposes of information and guidance to determine the extent, type, nature, location, and timing of airport development needed in a specific area to establish a viable balanced, and integrated system of public-use airports.
- Airports of Entry—Aircraft may land at these airports without prior permission to land from U.S. Customs.
- Air Route Traffic Control Center (ARTCC)—A facility established to provide air traffic control service to aircraft operating on IFR flight plans within controlled airspace, and principally during the enroute phase of flight.
- Air Taxi—See Air Carrier and Primary Use.
- Air Traffic Control (ATC)—A service operated by appropriate authority to promote the safe, orderly, and expeditious flow of air traffic.
- Air Traffic Control Facility—A facility which provides air traffic control services located in the U.S., its possessions and territories, and in foreign countries especially established by international agreement.
- Air Traffic Hub—Air traffic hubs are not airports; they are the cities or twin cities requiring aviation services. The hubs fall into four classes as determined by each community's percentage of the total enplaned passengers all services and all operations U. S. certificated air carriers in the 50 States, the District of Columbia, and other U.S. areas.
 - Large air traffic hub—a community enplaning 1.00 percent or more of the total enplaned passengers.
 - Medium air traffic hub—a community enplaning from 0.25 to 0.99 percent of the total enplaned passengers.
 - Small air traffic hub—a community enplaning from 0.05 to 0.24 percent of the total enplaned passengers.

Nonhub—a community enplaning less than 0.05 percent of the total enplaned passengers.

American Flag Carrier—See U.S. Flag Carrier.

Approach Control Facility—A terminal area traffic control facility providing approach control service.

Approach Control Service—Air traffic control service provided by an approach control-facility for arriving and departing aircraft and, on occasion, tower enroute control service.

Business Transportation—See Primary Use.

Carrier Group-A grouping of certificated air carriers determined by annual operating revenues as shown below:

| Carrier Group | Annual Operating Revenues |
|---------------|--|
| Majors | \$1,000,000,000+ \$100,000,000 - \$1,000,000,000 \$10,000,000 - \$99,999,999 0 - \$9,999,999 or that operate aircraftwith 60 or less seats or maximum payload capacity of 18,000 lbs. |

Certificated Route Air Carrier—See Air Carrier.

Commercial Operator—See Air Carrier.

Commercial Pilot-See Pilot.

Commuter Air Carrier—See Air Carrier.

Defense Visual Flight Rules (DVFR)—A flight within an Air Defense Identification Zone conducted under the visual flight rules in Federal Aviation Regulation, Part 99.

Domestic Operations—In general, operations within and between the 50 States, and the District of Columbia.

Executive Transportation—See Primary Use.

Flight Plan—Specified oral or written information about the intended flight of an aircraft that is filed with air traffic control.

Flight Service Station (FSS)—Air traffic Service facilities within the National Airspace System (NAS) which provide preflight pilot briefings and en route communications with VFR flights, assist lost IFR/VFR aircraft, assist aircraft having emergencies, relay Air Traffic Control clearances, originate, classify, and disseminate Notices to Airmen, broadcast aviation weather and NAS information, receive the close flight plans, monitor radio NAVAIDS, notify search and rescue units of missing VFR aircraft, and operate the national weather teletype-writer system. In addition, at selected locations, FSSs take weather observations, issue airport advisories, administer airmen written examinations, and advise Customs and Immigration of across-the-border flights.

Flight Services—The sum of flight plans originated and pilot briefs, multiplied by two, plus the number of aircraft contacted. See tables 2.6 and 2.14.

Foreign Flag Air Carrier—An air carrier other than a U.S. flag air carrier engaged in international air transportation (see also U.S. Flag Carrier).

Foreign Mail—Mail transported outside the United States by U.S. flag carriers for a foreign government.

General Aviation—That portion of civil aviation which encompasses all facets of civil aviation except air carriers.

Heliport—An area of land, water, or any structure used or intended to be used for the landing and takeoff of helicopters.

Hub-See Air Traffic Hub.

IFR Aircraft Handled—The number of IFR departures multiplied by two plus the number of IFR overs. This definition assumes that the number of departures (acceptances, extensions, and originations of IFR flight plans) is equal to the number of landings (IFR flight plans closed).

IFR Departure—An IFR departure includes IFR flights originating in center's area, accepted by the center under SOLE EN ROUTE clearance procedures, and extended by the center.

IFR Over—An IFR flight that originates outside the ARTCC area and passes through the area without landing.

Inactive Aircraft—All legally registered civil aircraft which flew zero hours.

Instructional Flying—See Primary Use.

Instrument Approach—An approach to an airport, with intent to land, by an aircraft flying in accordance with an IFR flight plan, when the visibility is less than 3 miles and/or when the ceiling is at or below the minimum initial altitude.

Instrument Flight Rules (IFR)—Rules governing the procedures for conducting instrument flight. Also a term used by pilots and controllers to indicate type of flight plan.

Instrument Landing System (ILS)—A precision instrument approach system which normally con. sts of the following electronic and visual aids:

Localizer—Provides course guidance to the runway.

Glide Slope—Provides vertical guidance during approach.

Marker Beacon—Provides aural and/or visual identification of a specific position along an instrument approach landing.

Instrument Operation—An aircraft operation in accordance with an IFR flight plan or an operation where IFR separation between aircraft is provided by a terminal control facility or air route traffic control center.

International Flight Service Station (IFSS)—A central operations facility in the flight advisory system, staffed and equipped to control aeronautical point-to-point telecommunications, and air-ground telecommunications with pilots operating over international territory or waters, which provides flight plan following, weather information, search and rescue action, and other flight assistance operations.

International Operations—In general, operations outside the territory of the U.S., including operations between the U.S. and foreign countries, and the U.S. and its territories or possessions. Includes both the combination passenger/cargo carrier and the all-cargo carriers engaged in international and territorial operations.

Itinerant Operation—See Airport Operation.

Jet Route—A route designed to serve aircraft operations from 18,000 feet to 45,000 feet.

Landing Rights Airports—Any aircraft may land at one of these airports after securing prior permission to land from U.S. Customs.

Large Air Traffic Hub-See Air Traffic Hub.

Large Regional Carrier—See Carrier Groups.

Large Certificated Air Carrier—Carrier holding a certificate issued under section 401 of the Federal Aviation Act of 1958 and operating aircraft designed to have a maximum passenger seating capacity of more than 60 seats or a maximum payload capacity of more than 18,000 pounds, or conducting international operations.

Local Operation—See Airport Operation.

Major Carriers-See Carrier Groups.

Medium Air Traffic Hub-See Air Traffic Hub.

Medium Regional Carrier—See Carrier Groups.

Microwave Landing System (MLS)—An instrument landing system operating in the microwave spectrum which provides lateral and vertical guidance to aircraft having compatible avionics equipment.

National Carriers—See Carrier Groups.

Nonhub-See Air Traffic Hub.

Notice to Airmen—A notice containing information concerning the establishment, condition or change in any component of, or hazard in the National Airspace System, the timely knowledge of which is essential to personnel concerned with flight operations.

Other-See Primary Use.

Other Work Use-See Primary Use.

Over-See IFR Over.

Personal Flying—See Primary Use.

Pilot-

Student Pilot—A student pilot may not operate an aircraft that is carrying a passenger or that is carrying property for compensation or hire.

Private Pilot—A private pilot may not act as a pilot-in-command of aircraft that is carrying passengers for compensation or hire nor act as pilot-in-command in an aircraft that is being operated for compensation or hire (e. g.; one that has been hired to do pipeline patrol but carries no passengers.)

Commercial Pilot—A commercial pilot may act as pilot-in-command of an aircraft carrying passengers for compensation or hire and act as pilot-in-command in an aircraft that is being operated for compensation or hire (e. g.; one that has been hired to do pipeline patrol but carries no passengers.)

Airline Transport Pilot—An airline transport pilot may act as a pilot-in-command of an aircraft engaged in air carrier service.

Pilot Briefing—Information furnished a pilot to assist in flight planning. Principal items are weather conditions, notices to airmen, routes, and preparation and handling of the flight plan.

Primary Use—The use category in which an aircraft flew the most hours. The eleven use categorie are defined below:

Aerial Application—Any use of an aircraft for work purposes which concerns the production of foods, fibers, and health control in which the aircraft is used in lieu of farm implements or ground vehicles for the particular task accomplished. This includes fire fighting operations, the distribution of chemicals or seeds in agriculture, reforestation, or insect control.

Aerial Observation—Any use of an aircraft for aerial mapping/photography, survey, patrol, fish spotting, search and rescue, hunting, highway traffic advisory, or sightseeing; not included under Fart 135.

Commuter Air Carrier—An air taxi that performs at least five scheduled round trips per week between two or more points or carries mail.

Demand Air Taxi—Use of an aircraft operating under Federal Aviation Regulations, Part 135, passenger and cargo operations, including charter and excluding commuter air carrier.

Business Transportation—Use of an aircraft not for compensation or hire by individuals for the purposes of transportation required by business in which they are engaged.

Executive/Corporate Transportation—Any use of an aircraft by a corporation, company, or other organization for the purposes of transporting its employees and/or property not for compensation or hire, and employing professional pilots for the operation of the aircraft.

Instructional Flying—Any use of an aircraft for the purpose of formal instruction with the flying instructor aboard, or with the maneuvers on the particular flight(s) specified by the flight instructor; excludes proficiency flying.

Personal Flying—Any use of an aircraft for personal purposes not associated with a business or profession, and not for hire. This includes maintenance of pilot proficiency.

Other Work Use— Any aircraft used for construction work (not included under Part 135), helicopter, hoist, towing gliders, or parachuting.

Other—Any other use of an aircraft not included above. (Example: experimentation, R&D: testing, demonstration, government).

Private Pilot-See Pilot.

Private-Use Airport—An airport which is not open for the use of the general public.

Privately Owned Airport—An airport which is owned by a private individual or corporation.

Public-Use Airport—An airport open to for public use without prior permission, and without restrictions within the physical capacities of available facilities. May or may not be publicly owned.

Publicly Owned Airport—An airport which is publicly owned and under control of a public agency.

Small Air Traffic Hub-See Air Traffic Hub.

Small Certificated Air Carrier—Carrier holding a certificate issued under section 401 of the Federal Aviation Act of 1958 and operating aircraft designed to have a maximum seating capacity of 60 or less seat or a maximum payload of 18,000 pounds or less.

Stolport—An airport specifically designed for STOL (Short Take-off and Landing) aircraft, separate from conventional airport facilities.

Student Pilot-See Pilot.

Supplementat Air Carrier—See Air Carrier.

Terminal Area—A general term used to describe airspace in which approach control service or airport traffic control service is provided.

Tower-See Airport Traffic Control Tower.

U.S. Flag Carrier or American Flag Carrier—One of a class of air carriers holding a Certificate of Public Convenience and Necessity issued by the DOT, approved by the President, authorizing scheduled operations over specified routes between the United States (and/or its territories) and one or more foreign countries. (See also Foreign Flag Air Carrier.)

VFR Flight—Flight conducted in accordance with Visual Flight Rules.

VOR—Very high frequency omnidirectional radio range. Used as the basis for navigation in the national Airspace System.

VORTAC—A navigation aid providing azimuth and distance measuring equipment as one site.